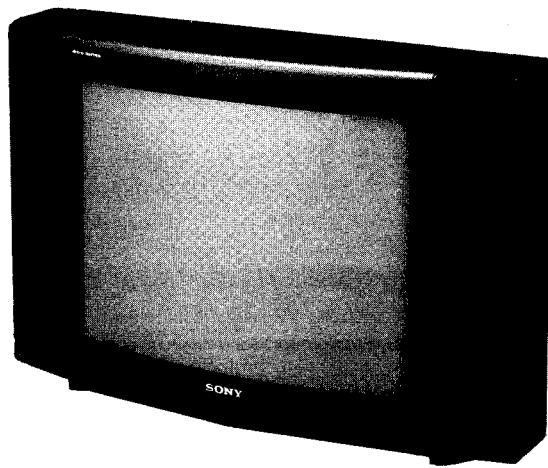


**KV-C25TD**  
**RM-673**

# SERVICE MANUAL

*AEP Model*  
*Australian Model*  
Chassis No. SCC-B14Q-A



## AE-1 CHASSIS

**Note:** The service manual for RM-673 has been issued separately.

### MODELS OF THE SAME SERIES

KV-C25TD (AEP, AUS)	KV-DX21TD (AEP)
KV-C27TD (AEP, AUS)	KV-X25TD (AEP)
KV-DX27TD (AEP)	KV-X21TD (AEP)

### SPECIFICATIONS

<b>Television system</b>	CCIR B, G and H
<b>Color system</b>	PAL, SECAM, NTSC3.58, NTSC4.43
<b>Stereo system</b>	German two carrier system
<b>Channel coverage</b>	(AEP) VHF channels E2-E12 UHF channels E21-E69 Cable TV channels S01-S03 S1-S41 (a total of up to 30 preselected channels) (AUS) VHF channels 1-11 UHF channels 28-63
<b>Picture tube</b>	Trinitron tube 110° degree deflection Approx. 63.5cm (25 inches) (Approx. 64cm picture measured diagonally)
<b>Inputs</b>	21-pin connector : CENELEC standard
<b>Outputs</b>	Headphones jack : stereo minijack External speaker terminals : 2-pin DIN
<b>Power consumption</b>	96Wh
<b>Dimensions</b>	Approx. 765×507×470mm (w/h/d)
<b>Weight</b>	Approx. 37.5kg
<b>Supplied accessories</b>	RM-673 Remote Commander (1) IEC designation R6 batteries (2)
<b>Sound output</b>	10W+10W (music power)

Design and specifications are subject to change without notice.

**TRINITRON® COLOR TV**  
**SONY®**



MICROFILM

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**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## SECTION 1

### GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

#### 1-1. FIRST OF ALL

1 Connect the aerial to the  $\frac{75}{\square}$  socket on the rear of the set.  
This socket receives the standard 75-ohm aerial plug.

2 Plug in the set.

3 Preset the available channels.

Use the buttons inside the panel. To open the panel, push the  $\frac{\uparrow}{\square}$  mark.

To tune in all channels automatically :

- 1 Press  $\frac{\diamond}{\square}$  (Preset)
- 2 Press PROGR to select the program position from which tuning is to start.
- 3 Press  $\frac{\diamond}{\square}$  (Auto programing).

Up to 29 receivable channels can be preset in numerical sequence beginning from program number 1.  
When tuning has been completed, the set returns to program position 1.

To tune in a channel in any desired program position.  
(e. g. to preset a channel in its corresponding program position : channel 1 in position 1) :

- 1 Press  $\frac{\diamond}{\square}$  (Preset).
- 2 Select the desired program position by using PROGR + or -.
- 3 Press C (Clear).
- 4 Press  $\frac{\diamond}{\square}$  (Search) repeatedly until the desired channel appears.
- 5 Press  $\frac{\diamond}{\square}$  (Preset) again.

To skip the unused program positions skipped (when using the PROGR + or - buttons to scan available channels.)

- 1 Press  $\frac{\diamond}{\square}$  (Preset).
- 2 Select an unused position by using PROGR + or -.
- 3 Press C (Clear).
- 4 Repeat steps 2 and 3 for all unused position.
- 5 Press  $\frac{\diamond}{\square}$  (Preset) again.

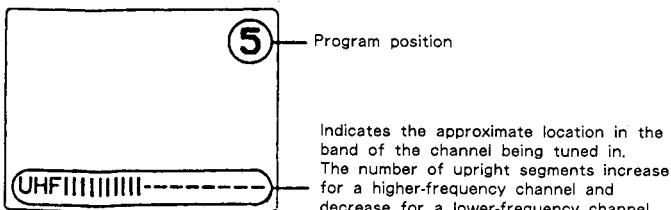
Move the VTR away from the TV, if the picture or sound is distorted. Only one of the VTRs should be turned on at one time. It is also possible to connect a VTR using the  $\frac{75}{\square}$  socket.

#### Note

If the set is to be used in an area with poor reception preset the program numbers between 1 and 19 for TV program use.

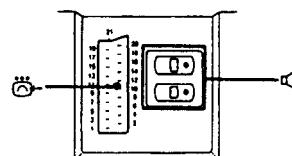
When watching a video with the VTR connected to the  $\frac{75}{\square}$  connector, set the channel for the video to program number 0 or any empty channel between 20 and 29.

#### On-screen display while tuning



#### 1-2. CONNECTING OTHER EQUIPMENT

connectors on rear set



L/G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be disconnected. Speakers 8-16 $\Omega$ .
R/D/D	Right external speaker terminal (2-pin DIN)	

	21-pin connector (CENELEC standard)	Connect to a VTR micro computer, etc. using an optional connection cord. The picture of the TV channel being received is always output.
--	-------------------------------------	---

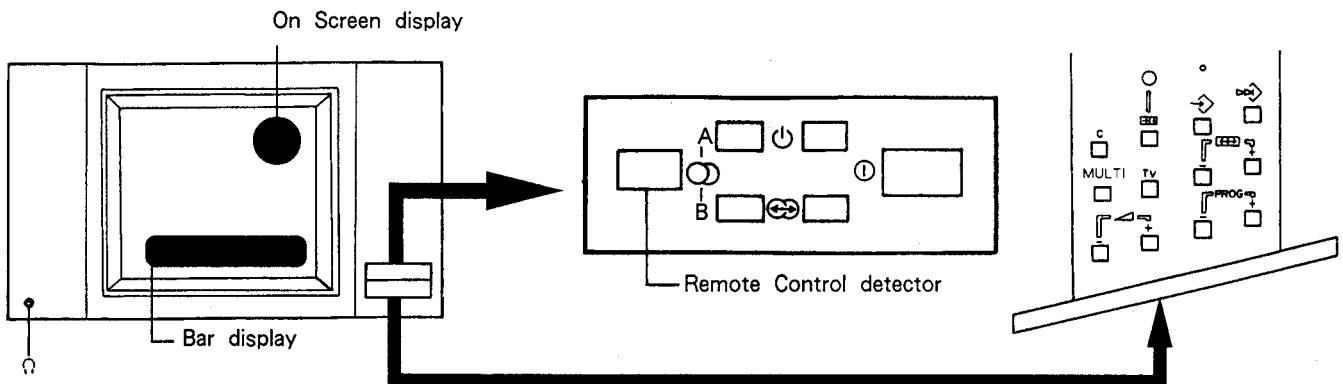
VTR operation using the supplied Commander. Remote operation of the VTR (8mm only) is limited to the features and functions of the VTR. For further details, refer to the VTR manual.

21 Pin Connector

Pin No	Signal	Signal level
1	Audio output B (right)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
2	Audio input B (right)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
3	Audio output A (left)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
4	Ground (audio)	
5	Ground	
6	Audio input A (left)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
7	Blue input	0.7 V $\pm$ 2 dB, 75 ohms, positive
8	Function select (AV control)	High state (9.5–12 V) : Part mode Low state (0–2 V) : TV mode Input impedance : More than 10 k ohms Input capacitance : Less than 2 $\mu$ F
9	Ground (green)	
10	Open	
11	Green/Green with sync input	Green signal : 0.7 V $\pm$ 2 dB, 75 ohms, positive Green with sync signal : 1 V $\pm$ 2 dB, 75 ohms, positive
12	Open	
13	Ground (red)	
14	Ground (blanking)	
15	Red input	(Same as Pin 7)
16	Blanking input (Y <sub>s</sub> signal)	High state (1–3 V) Low state (0–0.4 V) Input impedance : 75 ohms
17	Ground (video output)	
18	Ground (video input)	
19	Video output	1 V $\pm$ 2 dB, 75 ohms, positive Sync : 0.3 V (–3, $\pm$ 10 dB)
20	Video input	1 V $\pm$ 2 dB, 75 ohms, positive Sync : 0.3 V (–3, $\pm$ 10 dB)
21	Common ground (plug, shield)	

\* at 20 Hz–20 kHz

## 1-3. FUNCTION OF CONTROLS



## On the set

## On-screen display and button

Indicates program numbers and input modes: ①, ②.  
Press this button to make the display appear on the screen, and again to make it disappear. See also "On the Remote Commander."

## Bar display

Indicates the level of the user controls when they are adjusted.

## ① Power switch

To cut off the main electricity supply, press this switch. Ensure correct operation by pressing this switch fully.

## ② standby indicator

## ③ space sound indicator

Lights up when ③ on the Remote Commander is pressed.

## ④/A, B stereo/bilingual indicator

Both indicators light up when a stereo program is received. The A or B indicator lights up when a bilingual program is received.

## Remote control detector

Point the Remote Commander toward this detector.

## Inside the panel

## ① headphones jack (stereo minijack)

## ② PRESET button

Press to preset the channels. Press again to memorize the preset channel.

## ③ Auto Programming button

Press to preset all the receivable channels automatically.

## ④ Clear button

Press to restore the memory of all channels to the lowest receivable frequency.

## ⑤ AFT button and indicator

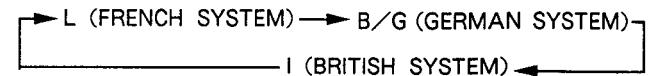
Normally press ⑤ so that the indicator lights up. The AFT circuit automatically fine tunes the channels for the best possible picture.

## ⑥ SEARCH buttons

Press to fine tune a weak channel manually, if required. When ⑥ is pressed, the ⑤ indicator (AFT) goes off and the AFT circuit does not function on the selected channel. To restore the AFT circuit on the channel, press ⑥ so that the indicator lights up.

## TV button

Press this button to change TV system.



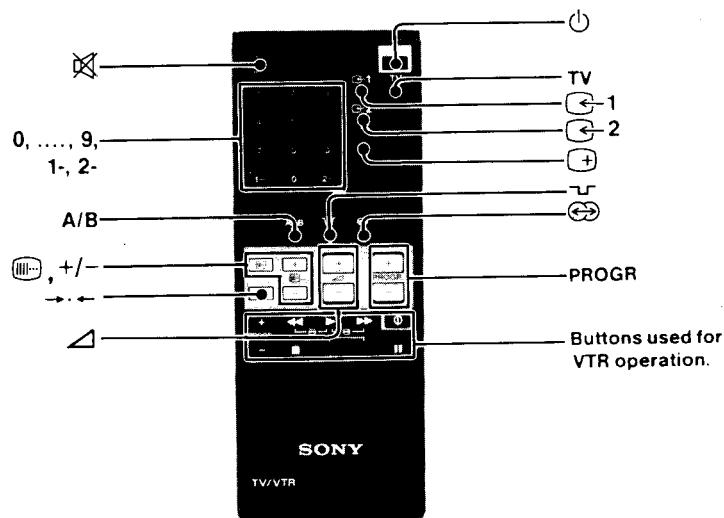
## ⑦ volume buttons

## PROGR buttons

## MULTI button

Press when you see the video with NTSC 3.58 system input from ① or ② (rear of the set) and broadcasts are seen in black and white color (usually color system is selected automatically).

The indication NTSC 3.58 will appear at the bottom of the screen.



#### On the Remote Commander

To operate the Commander, point it toward the remote control detector.

##### mute button

Use to mute the sound.

##### 0, ..., 9, 1-, 2- buttons

To select :  
program 15, press 1- and 5  
program 25, press 2- and 5

##### A/B bilingual button

Press to select channel A (usually the local language) or B (usually the original language) of a bilingual program. Both indicators light up if a stereo program is received.

##### +/− picture and sound adjustment buttons

Press  repeatedly until the on-screen display of the required adjustment appears. (● picture, ○ color, △ hue, ○ brightness, □ sharpness, ○ bass, ○ treble, △ balance) Adjust by pressing + or − adjust to the  button.

##### Notes

- When the volume is at the minimum setting, the balance function  does not operate.

##### reset button

Press to reset picture, color, brightness, sharpness, bass, treble and balance to factory set levels.

##### standby button

Press to turn the set into the standby mode. Use facility to turn off the set for short periods of time. To return to TV mode, press TV or the program number on the Remote Commander; there will be a slight delay before the picture is restored. If the main power is turned off when in standby mode the indicator will take 2 to 6 seconds to go off.

##### TV button

Press to change to the TV mode from the standby or  input or teletext modes.

##### 1 input button

Press to view the input picture coming in through the  connector. " 1" lights up on the screen. Press TV or the program number to return to the TV mode.

##### 2 input button

Press to view the input picture coming in through the  connector. " 2" lights up on the screen. Press TV or the program number to return to the TV mode.

##### on-screen display button

Press to make the display appear on the screen. And again to make it disappear.

##### loudness button

Press to emphasize high and low notes.

##### space sound button

Press to obtain special acoustic effects.

##### volume buttons

##### PROGR buttons

##### Note

Buttons not referred to in the text of this manual do not operate.

## 1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

### Operation

- 1 Select the TV channel for the desired teletext service. When the signal is weak, teletext error may often occur.
- 2 Press  (TEXT/MIX) to display the teletext service. Once  has been pressed, the TV channel cannot be changed.
- 3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing .

To receive the teletext service of a different TV channel.

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press .

### Note

To receive the teletext service accurately, keep  inside the panel switched on during teletext operation.

To display the index page.

Press .

If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page press  (PAGE+) or  (PAGE-).

To superimpose the teletext display on the TV picture. Press  twice from TV mode. Press again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed.

Press .

This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated / changed.

Press .



To resume normal teletext reception, press .

To enlarge the teletext display.

Press .

Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as the answers to a quiz.

Press .

Press again to conceal the answers.

To adjust the contrast of the teletext display.

When in teletext mode, adjust by using the + or - keys adjacent to the .

To watch the TV program while waiting for a requested page to be displayed.

1 Request new page.

2 Press  to watch the TV program.

The requested page number appears at the top left of the screen.

When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.

**P101**

To view this page, press .

To have a requested page displayed at a predetermined time.

1 Request a time coded page (e. g. alarm page).

2 Press .

"T\*\*\*\*" will appear at the bottom of the screen.

**T\*\*\*\***

3 Enter your request time with the number buttons, using four digits. For example, 07 : 30.

**T0730**

To watch the TV program until the requested time, press .

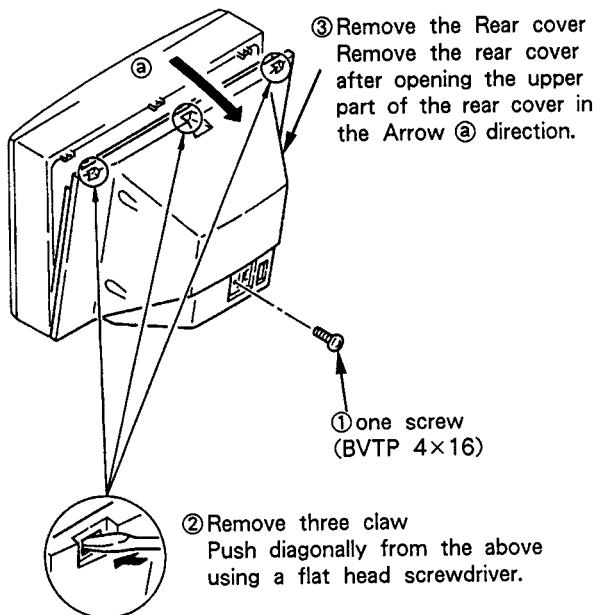
At the requested time, the page number will be displayed at the bottom of the screen.

To view this page, press .

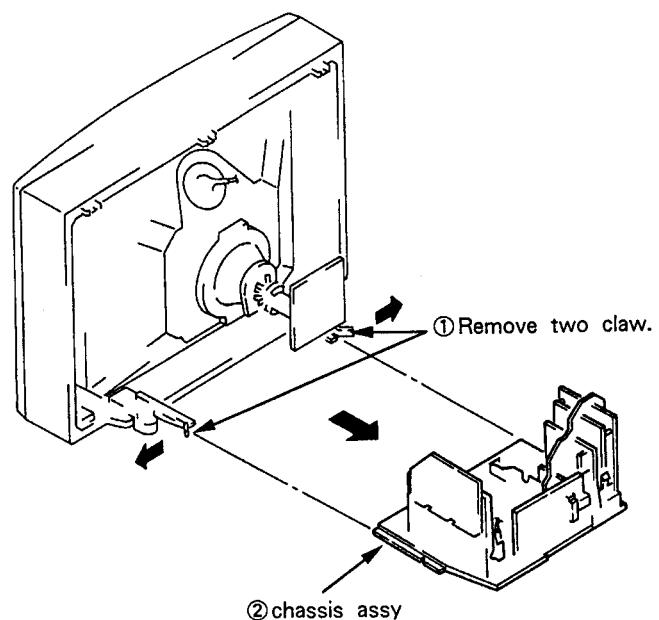
To cancel the request, first ensure that the teletext page is displayed, then press .

## SECTION 2 DISASSEMBLY

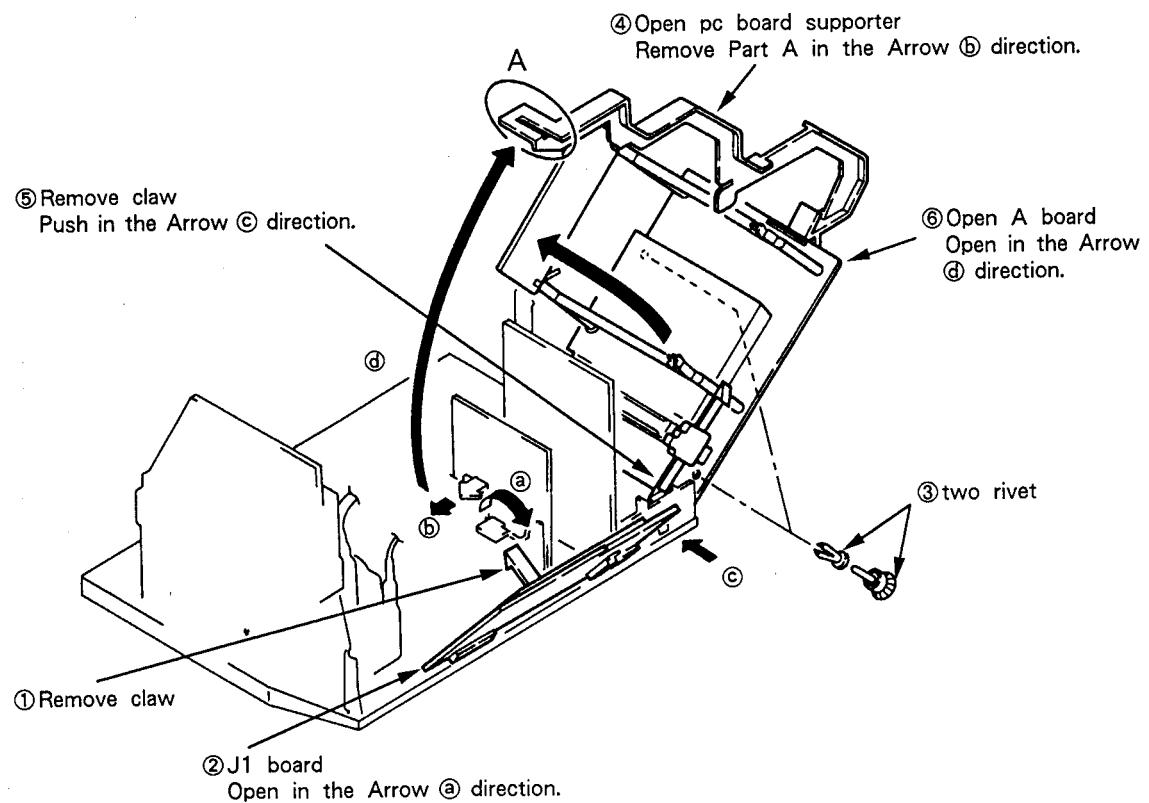
### 2-1. REAR COVER REMOVAL



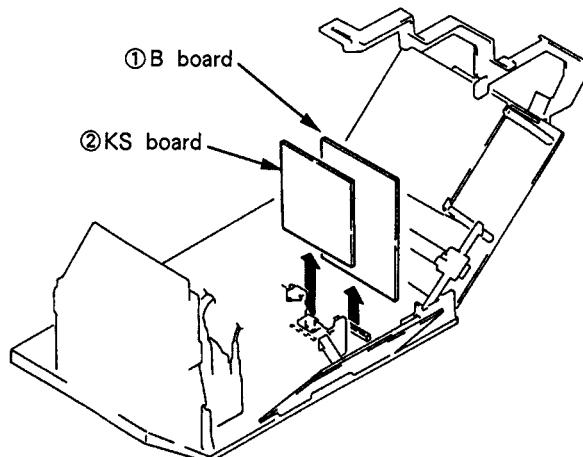
### 2-2. CHASSIS ASSY REMOVAL



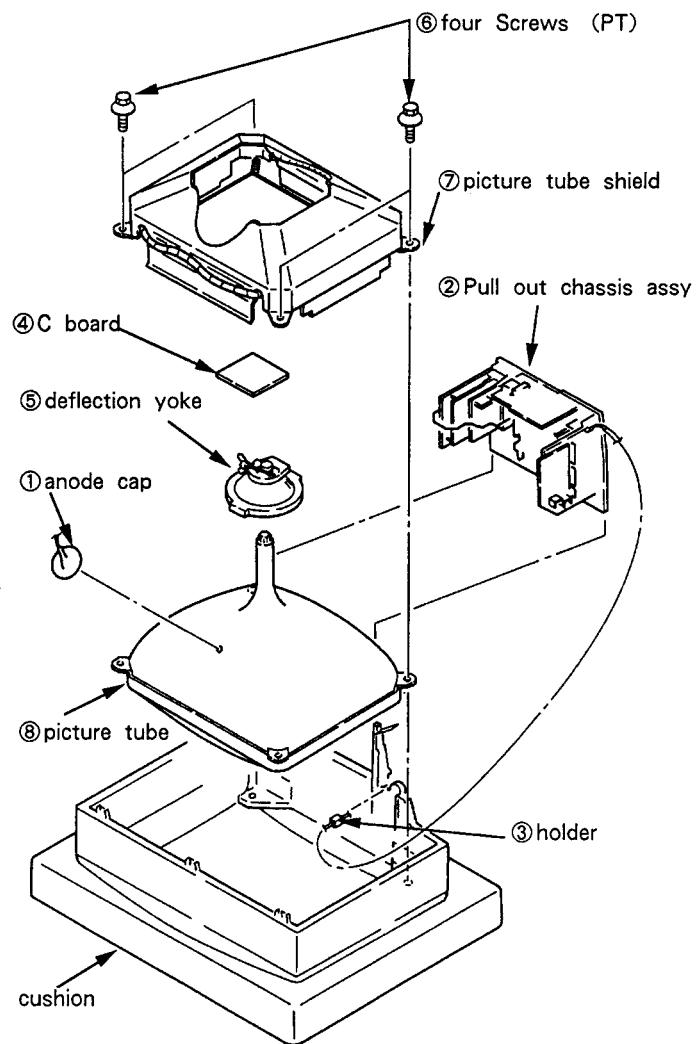
### 2-3. J., A AND V BOARDS REMOVAL



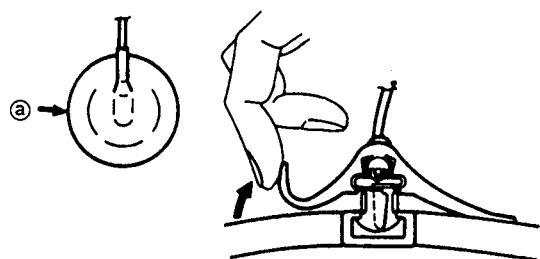
## 2-4. KS AND B BOARDS REMOVAL



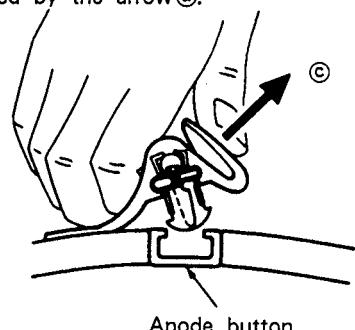
## 2-5. PICTURE TUBE REMOVAL



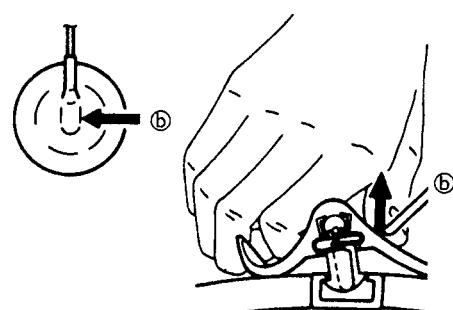
## ● Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrow ③.



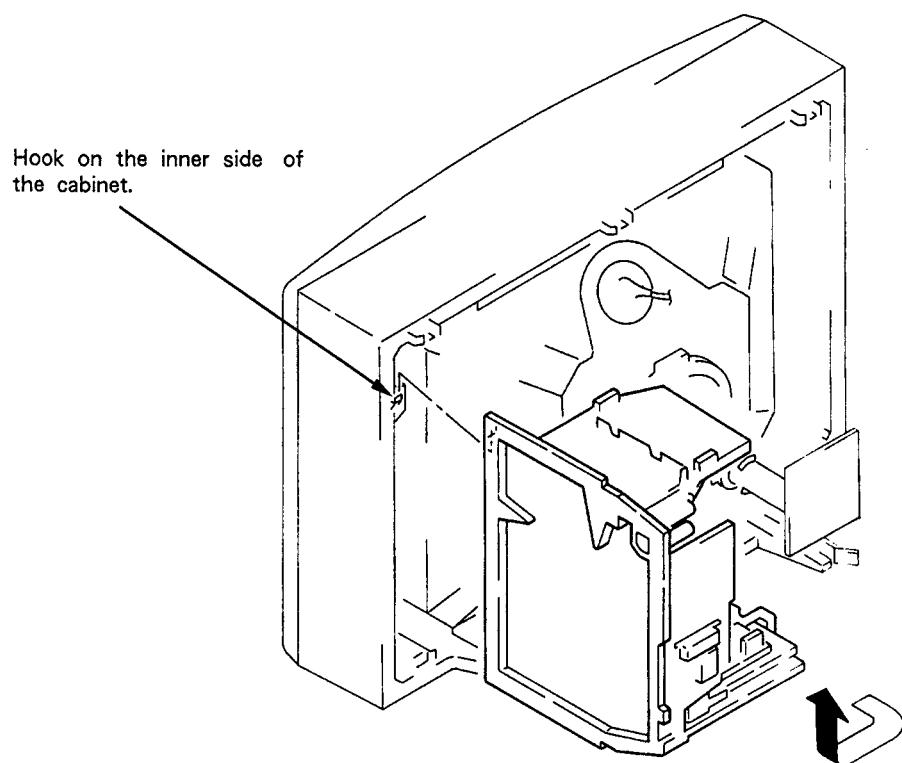
Anode button



② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

**2-6. SERVICE POSITION**



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

① CONTRAST control ..... 80% (or Normal by Commander)  
⊗ BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note :** Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

#### Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

#### 3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.  
CONTRAST } normal  
BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3-1 — 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3-4)

Fig.3-1

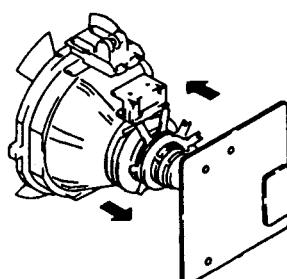


Fig.3-2

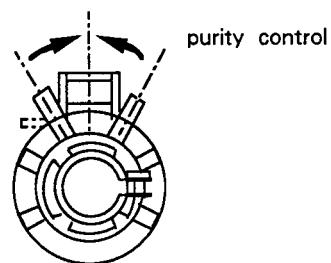


Fig.3-3

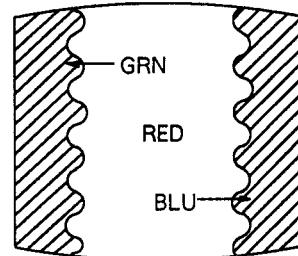
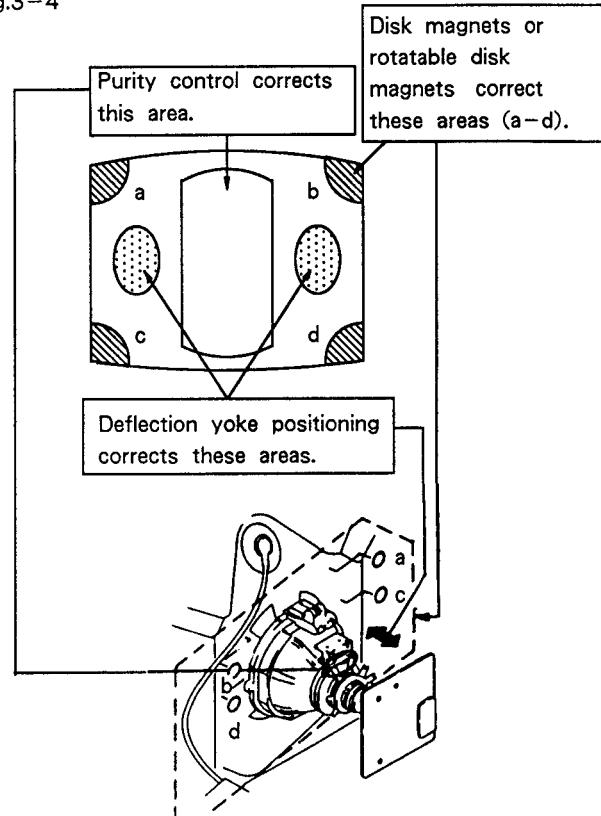


Fig.3-4

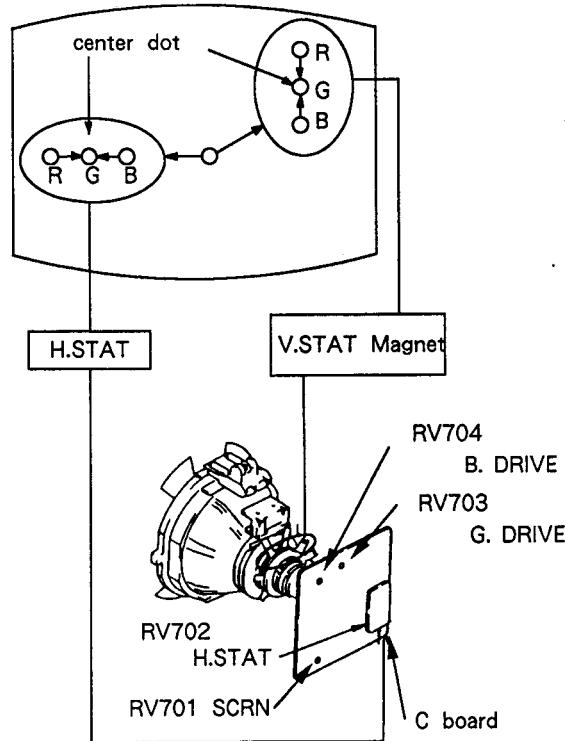


### 3-2. CONVERGENCE

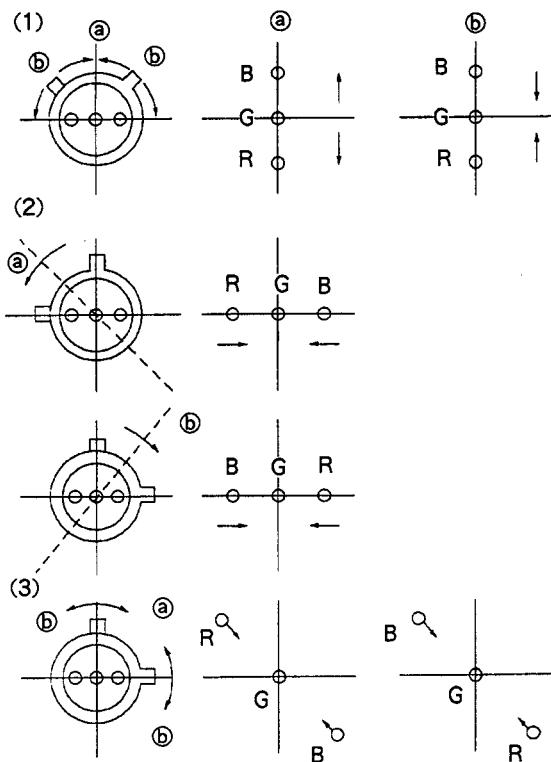
#### Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

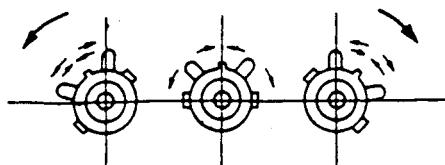
#### (1) Horizontal and Vertical Static Convergence



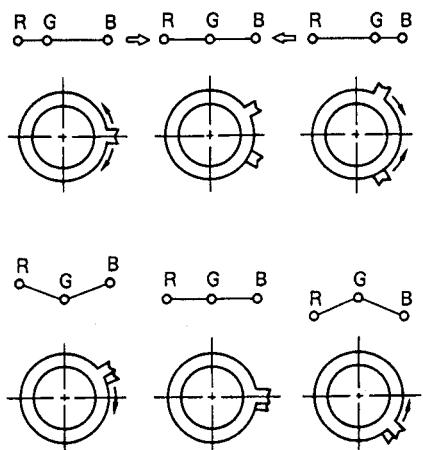
4. When the V. STAT magnet is moved in the direction of arrow ④ and ⑤, red, green and blue dots move as shown below.



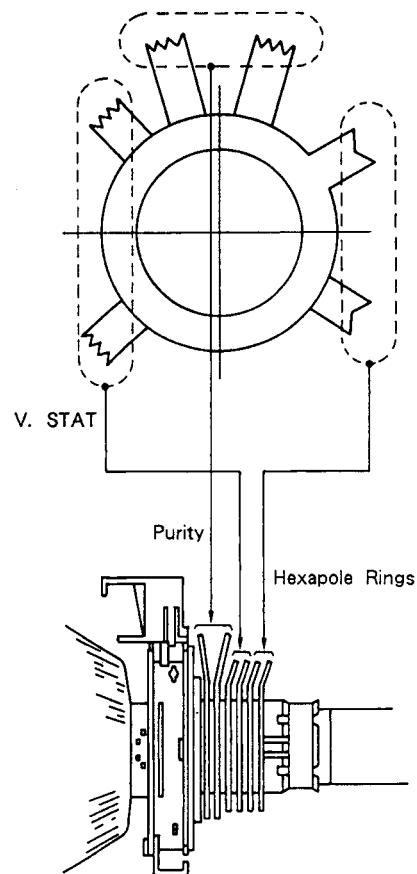
1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.  
(In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



- Operation of Hexapole Ringed Magnet



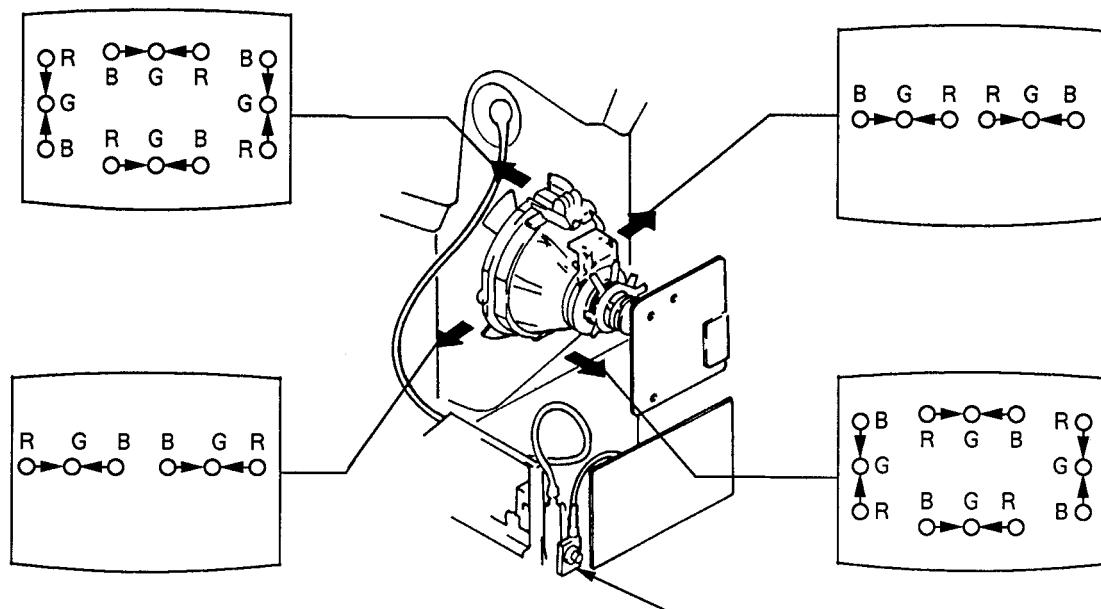
- The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.  
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic Convergence Adjustment

Preparation :

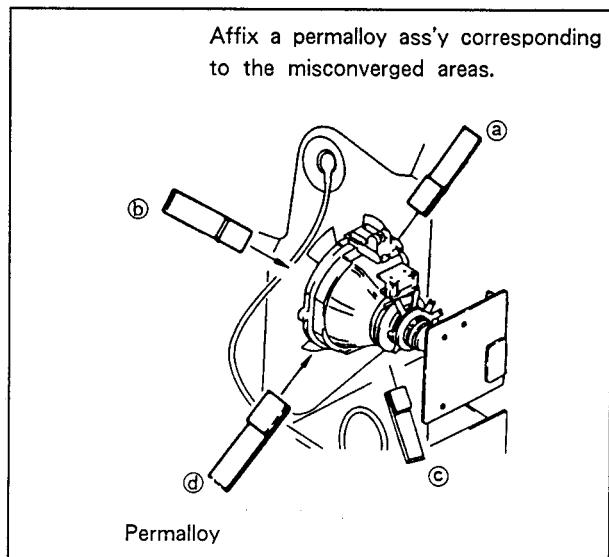
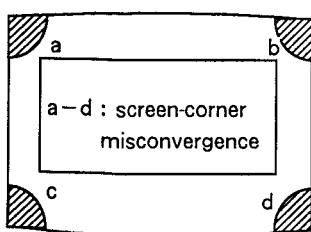
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



**3-3. FOCUS**

Adjust FOCUS so that the whole screen is in best focus.

(3) Screen - corner Convergence



### 3-4. WHITE BALANCE

[Screen (G2) Setting]

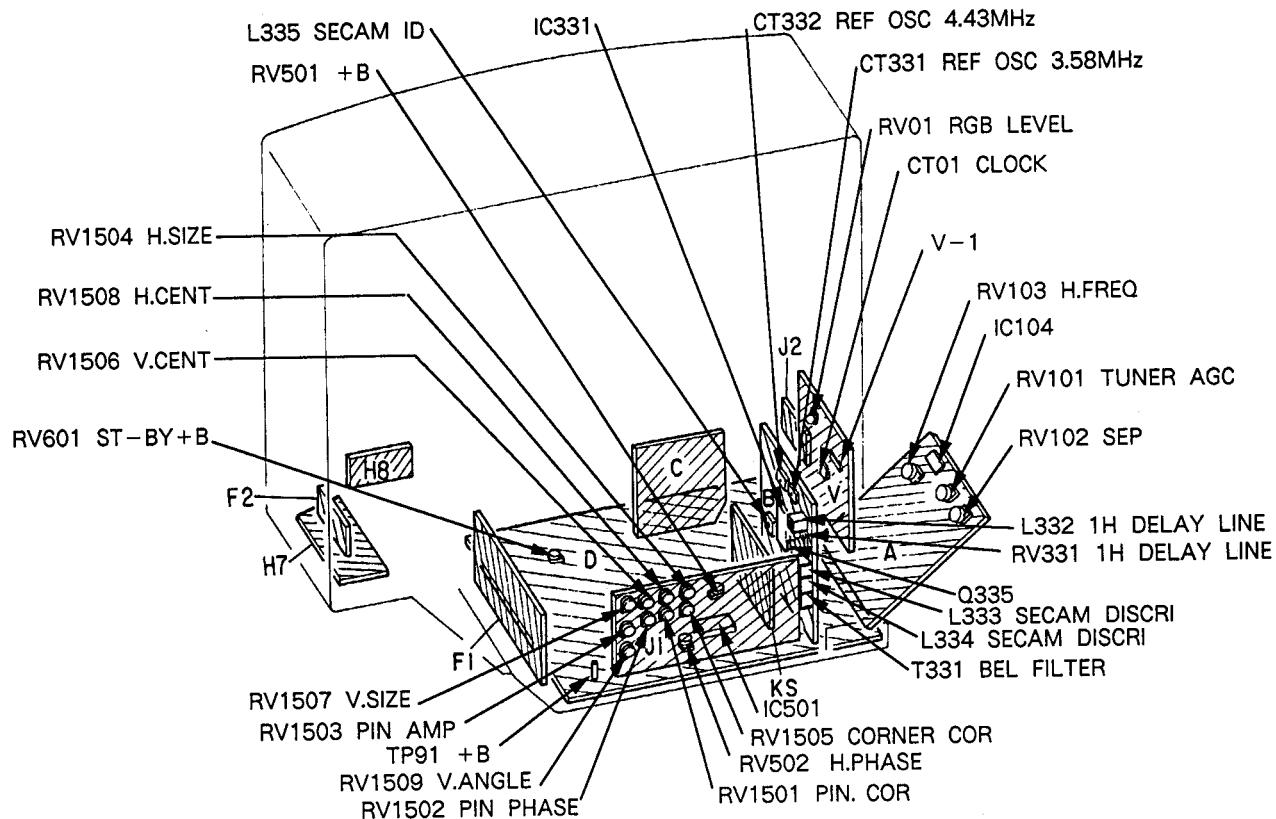
1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

[White Balance Adjustment]

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

## SECTION 4 CIRCUIT ADJUSTMENTS



### 4-1. A BOARD ADJUSTMENTS

#### TUNER AGC Adjustment (RV101)

1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from the picture.

#### STEREO SEPARATION Adjustment (RV102)

1. Input stereo signals. (L-CH 1kHz, R-CH 400Hz)
2. Check the stereo indicator.
3. Connect an oscilloscope to pin ① (L) of CNA11 through band pass filter of 1kHz.
4. Adjust RV102 so that 1kHz voltage goes down to the minimum.

#### H. FREQ. Adjustment (RV103)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑫ of IC104 and ground.
3. Connect a frequency counter to pin ⑥ of IC104 through a probe of 10:1.
4. Adjust RV103 so that H. frequency becomes  $15.625 \pm 50\text{Hz}$ .

### 4-2. B BOARD ADJUSTMENTS

#### REF OSC NTSC 3.58 MHz (CT331)

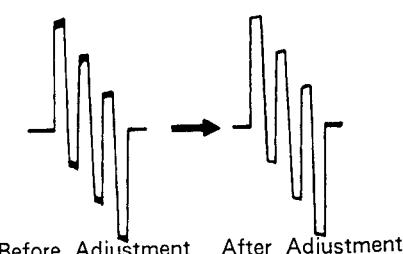
1. Input a NTSC 3.58MHz COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC331 and ground.
3. Adjust CT331 to obtain color synchronization.
4. Remove the jumper wire from IC331.

#### REF OSC Adjustment NTSC 4.43 MHz (CT332)

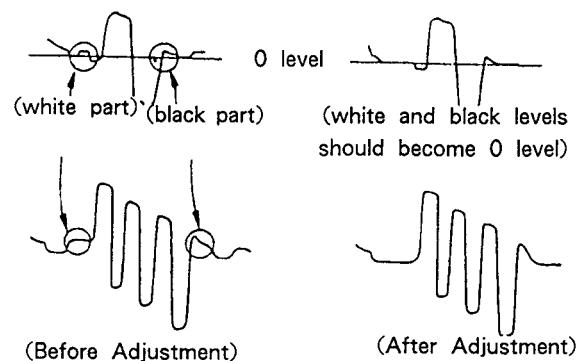
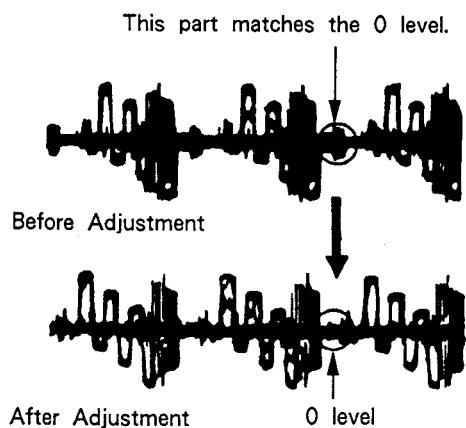
1. Input a NTSC 4.43MHz COLOR BAR pattern.
2. Short circuit between pin ⑪ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove the jumper wire from IC331.

#### 1H DELAY LINE Adjustment (L332, RV331)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ③ (B-Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.



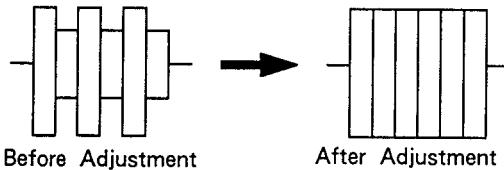
6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

#### SECAM ID Adjustment (L335)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ② of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

#### BELL FILTER Adjustment (T331)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.



#### SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.

### 4-3. D BOARD ADJUSTMENTS

#### +B Adjustment (RV501)

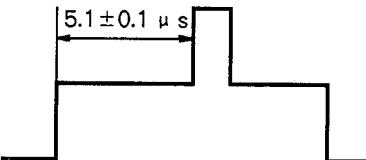
1. Connect a Digital Multimeter to TP91.
2. Adjust RV501 so that the voltage becomes  $135 \pm 0.2$  V.

#### ST-BY +B Adjustment (RV601)

1. Set up  $\phi$  standby (Remote Commander) mode.
2. Connect the Digital Multimeter to TP91.
3. Adjust RV601 so that the voltage becomes  $135 \pm 3$  V.
4. Release the  $\phi$  standby (Remote Commander) mode.

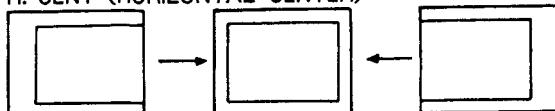
#### H. PHASE Adjustment (RV502)

1. Input a PAL TEST COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to  $5.1 \pm 0.1 \mu$  s.

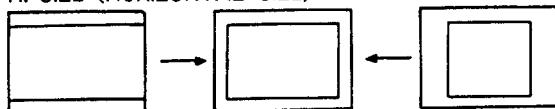


#### 4-4. J. BOARD ADJUSTMENTS

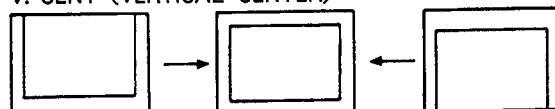
RV1508  
H. CENT (HORIZONTAL CENTER)



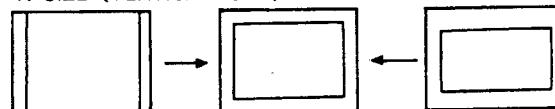
RV1504  
H. SIZE (HORIZONTAL SIZE)



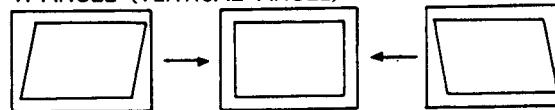
RV1506  
V. CENT (VERTICAL CENTER)



RV1507  
V. SIZE (VERTICAL SIZE)



RV1509  
V. ANGLE (VERTICAL ANGLE)



RV1503  
PIN AMP (PINCUSHION AMPLIFIER)



RV1502  
PIN PHASE (PINCUSHION PHASE)



RV1501  
PIN. COR (PINCUSHION CORRECT)



RV1505  
CORNER. COR (CORNER CORRECT)



#### 4-5. V BOARD ADJUSTMENTS

Clock Adjustment (CT01)

1. Disconnect the V-1 connector.
2. Set up the TELE TEXT mode.
3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes 0,65V.

#### 4-6. SUB ADJUSTMENTS

SUB BRIGHTNESS Adjustment

1. Receive and display a TEST COLOR BAR pattern.
2. Push  $\rightarrow \cdot \leftarrow$  on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Reduce the  $\textcircled{1}$  CONTRAST to the minimum level.
6. Adjust the  $\textcircled{2}$  BRIGHTNESS control until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.
7. Push the AFT button. (SUB mode is cleared)

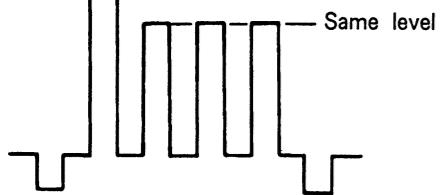
Where no TEST COLOR BAR pattern is available.

1. Display a COLOR BAR pattern.
2. Push  $\rightarrow \cdot \leftarrow$  on the remote commander to invoke the normal state.
- Set the  $\textcircled{1}$  COLOR to normal mode.
- Steps 3-5 are the same as above.
6. 20 IRE is close to blue, so adjust the  $\textcircled{2}$  BRIGHTNESS control till blue is faintly luminous.
7. Same as Step 7 above.
8. Push  $\rightarrow \cdot \leftarrow$  on the remote commander to invoke the normal state.
- \* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.

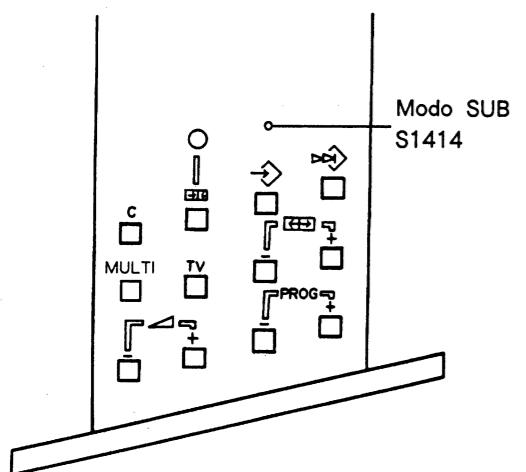
## SECTION 5 DIAGRAMS

### SUB COLOR Adjustment

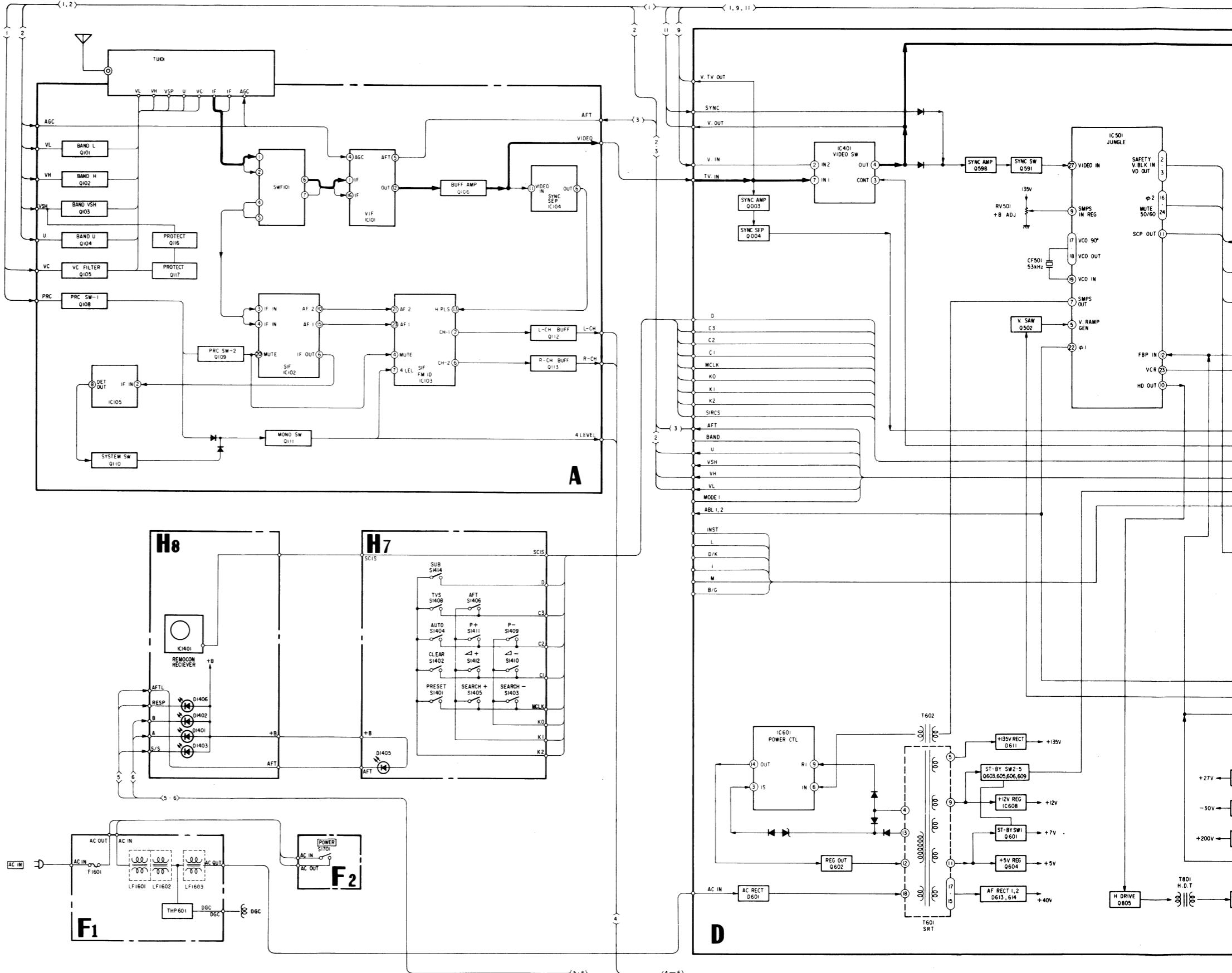
1. Display a COLOR BAR pattern.
2. Push  $\rightarrow \leftarrow$  on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Adjust the COLOR control until the B out (pin ② of CNC72 connector on C board) waveform becomes as shown below.
6. Push the AFT button. (SUB mode is cleared.)

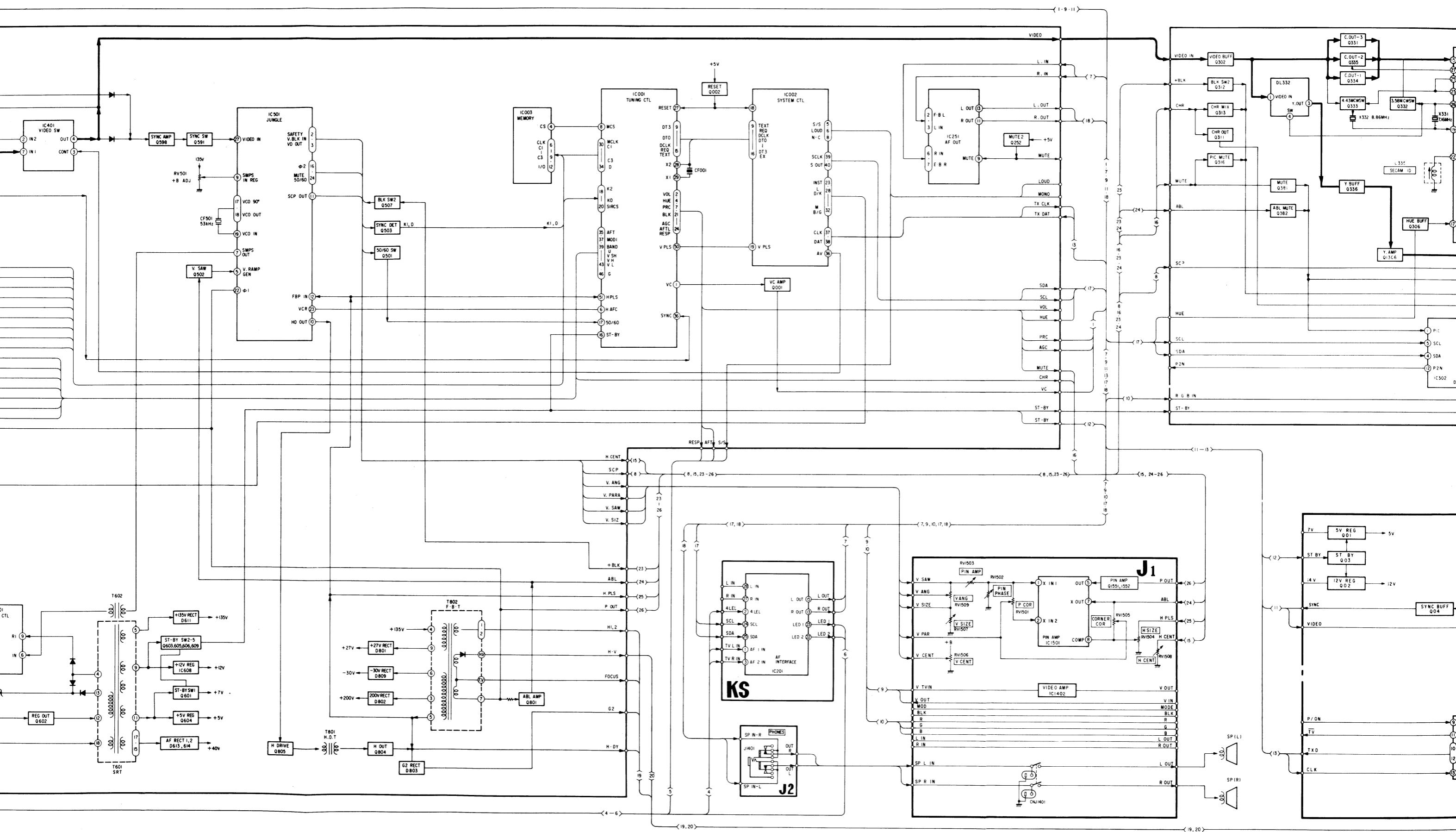


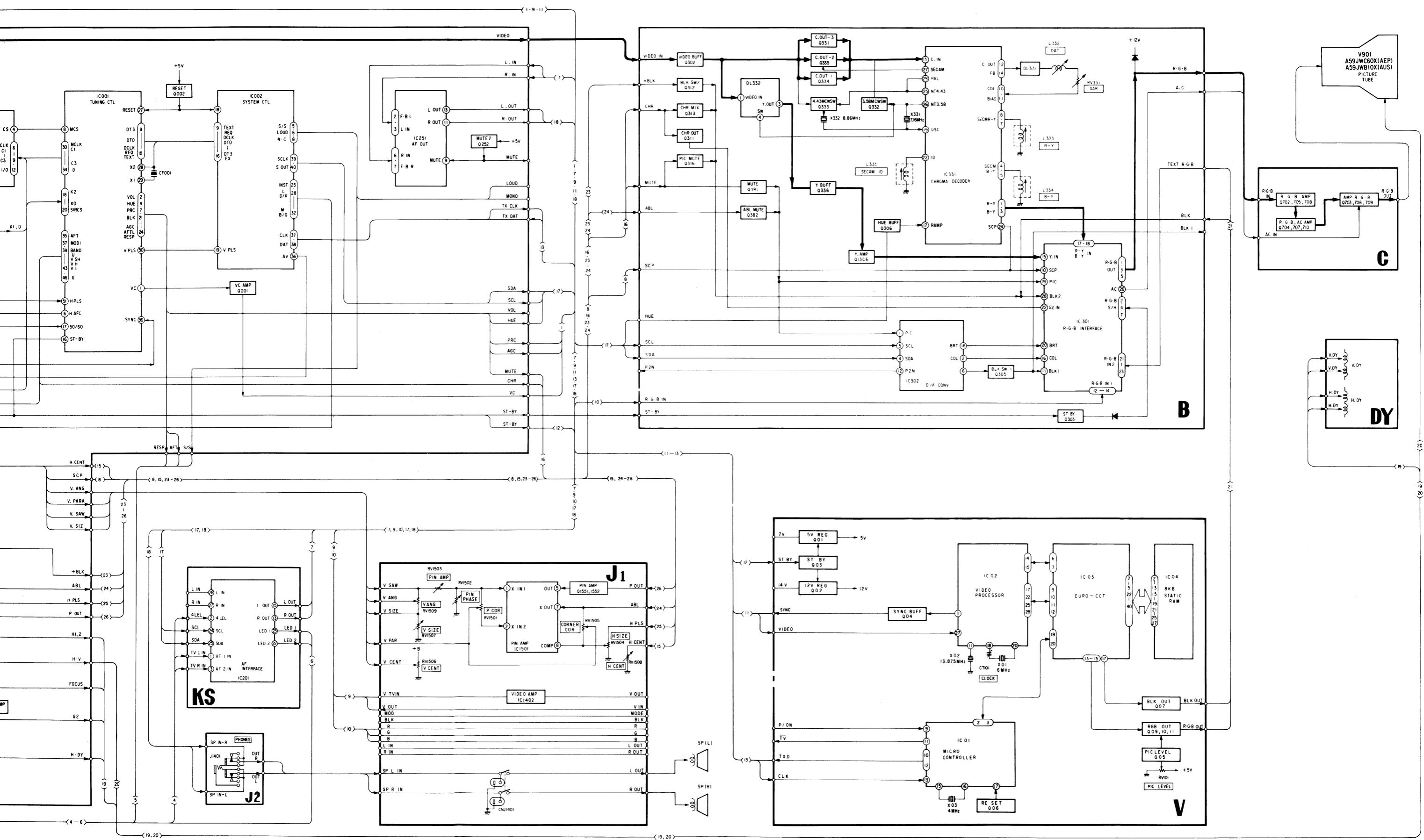
\* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.



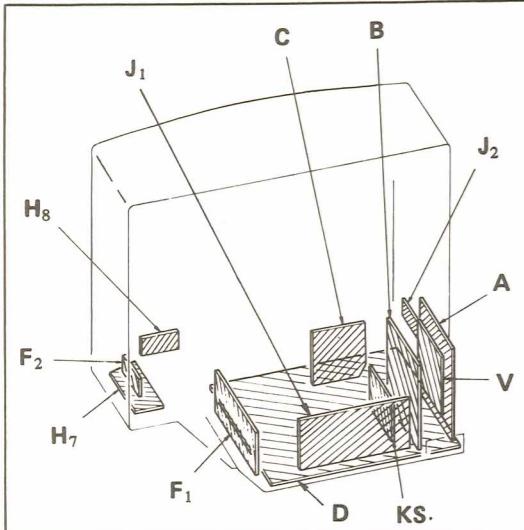
### 5-1. BLOCK DIAGRAM







## 5-2. CIRCUIT BOARDS LOCATION



Note:  
 ● All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{pF}$   
 50WV or less are not indicated except for electrolytics.  
 ● Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm  
 Rating electrical power: 1/4W

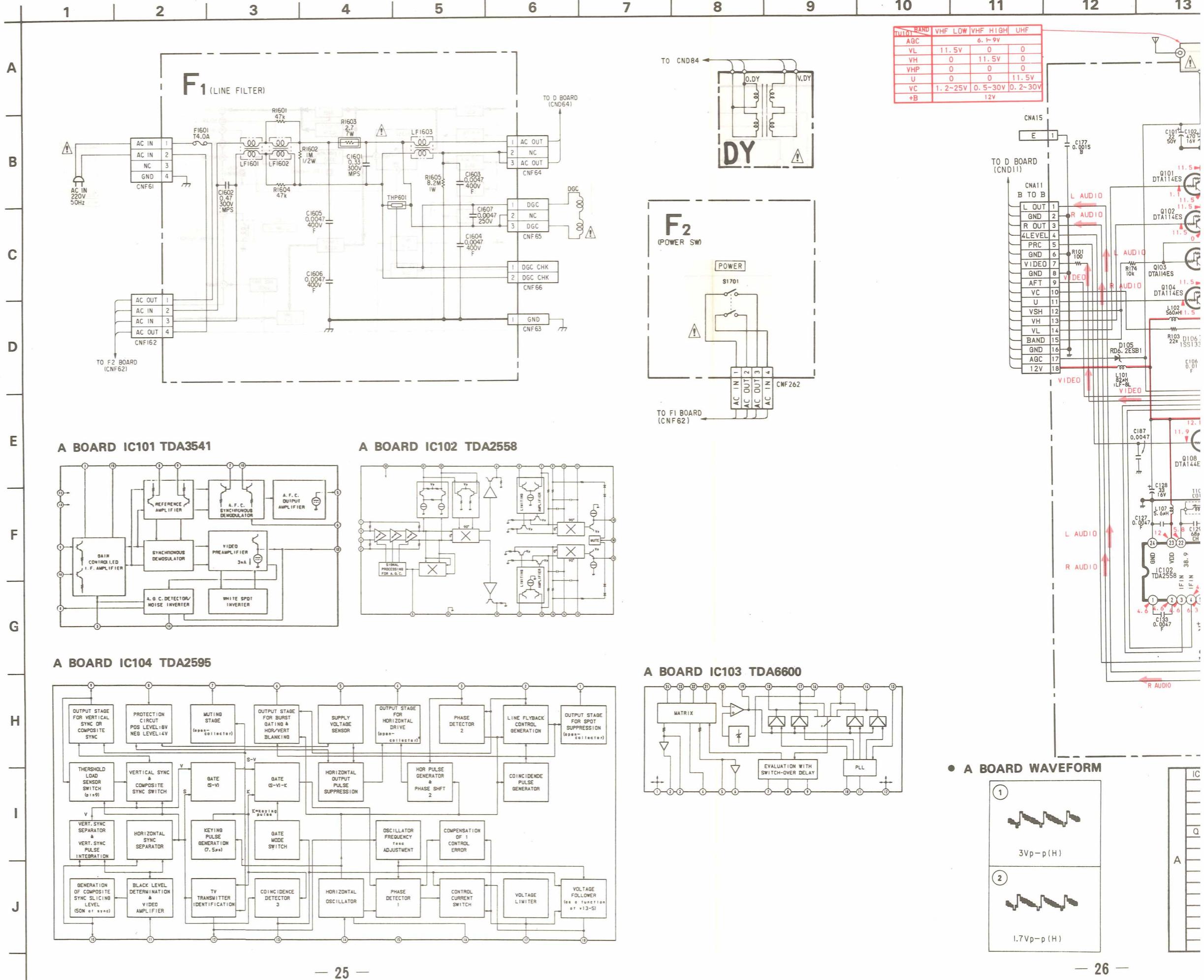
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M  $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.  
 no mark: PAL  
 < >: SECAM  
 ( ) : NTSC 3.58MHz  
 ( ) : NTSC 4.43MHz
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B+ line
- : B- line
- : signal path.

## Reference information

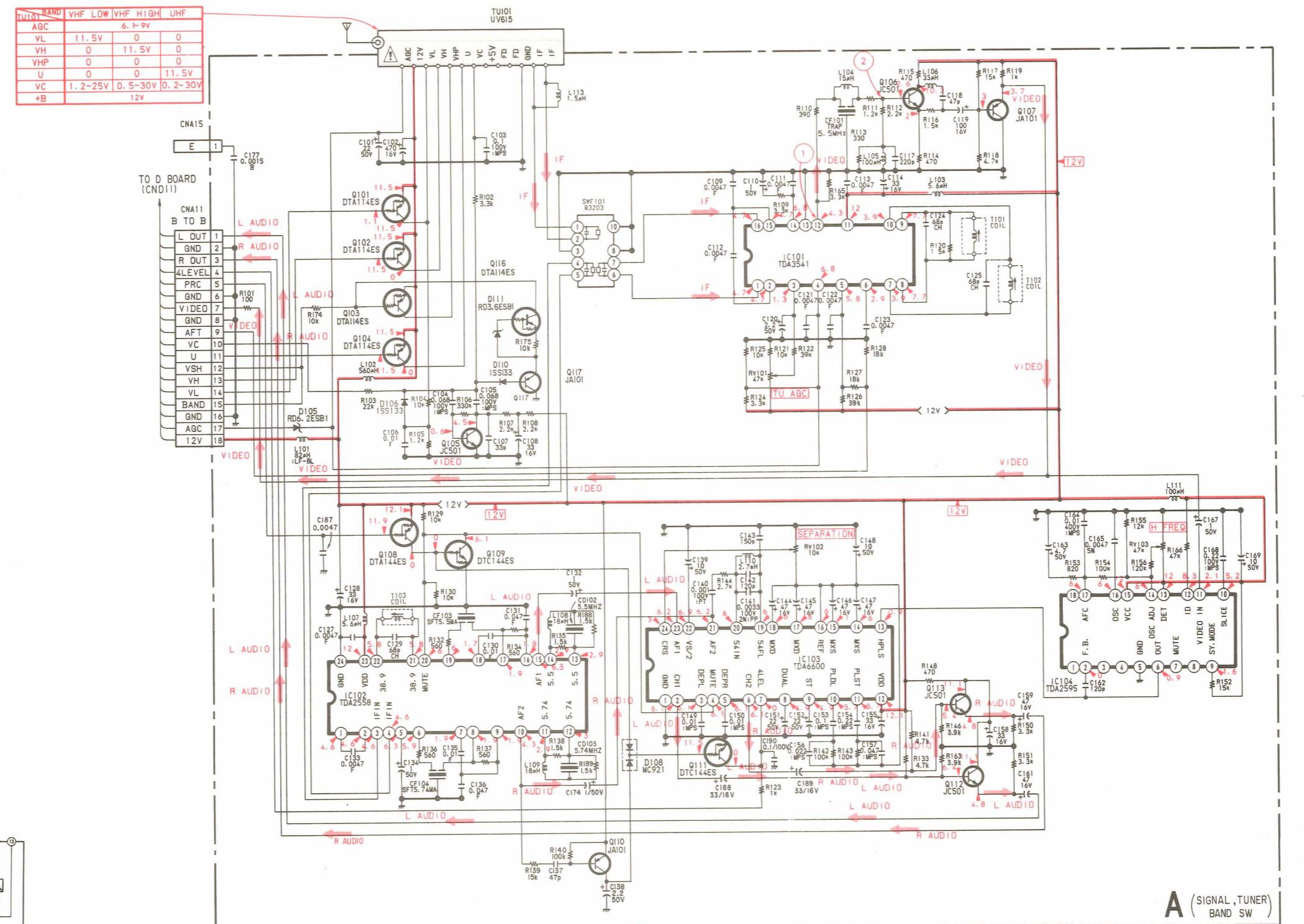
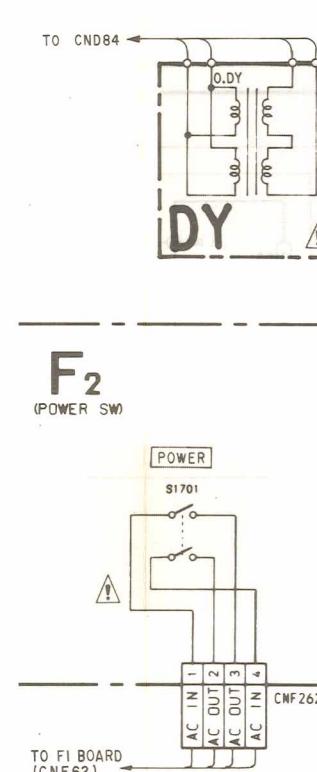
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

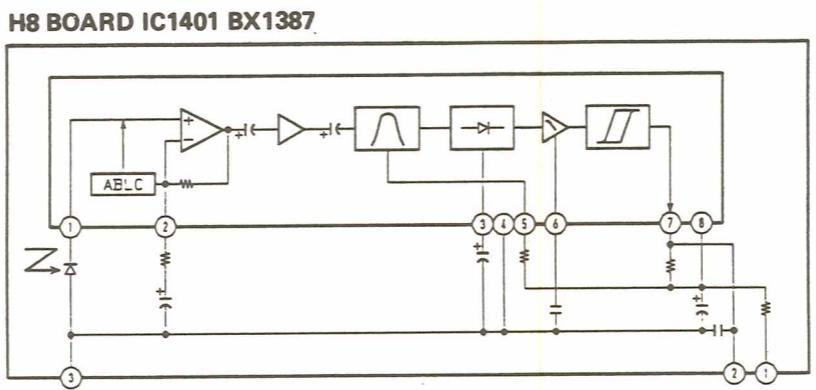
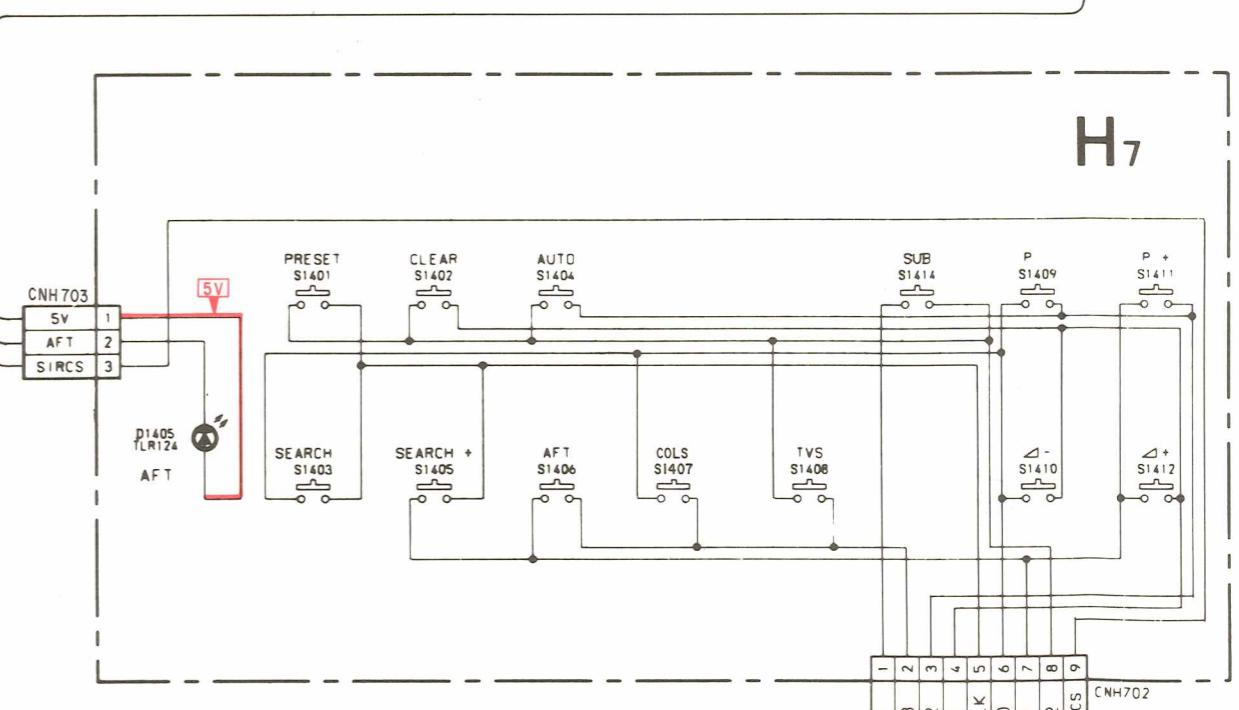
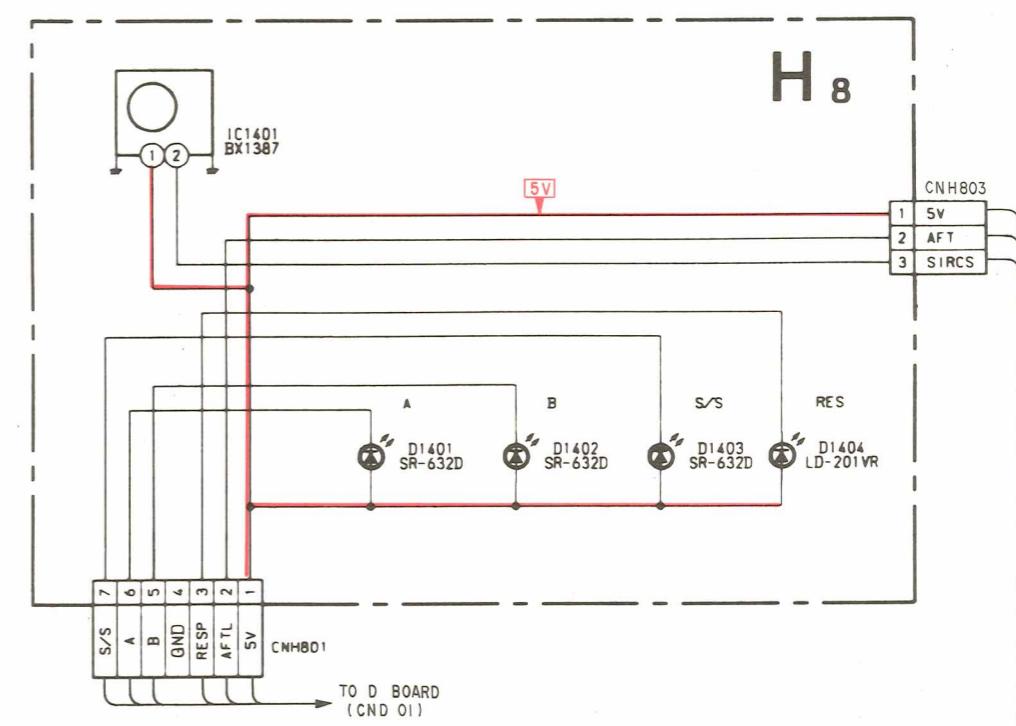
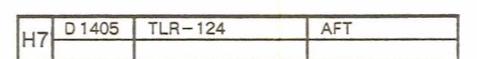
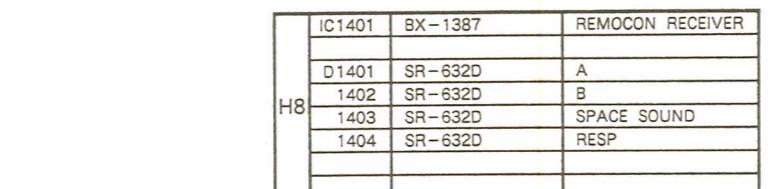
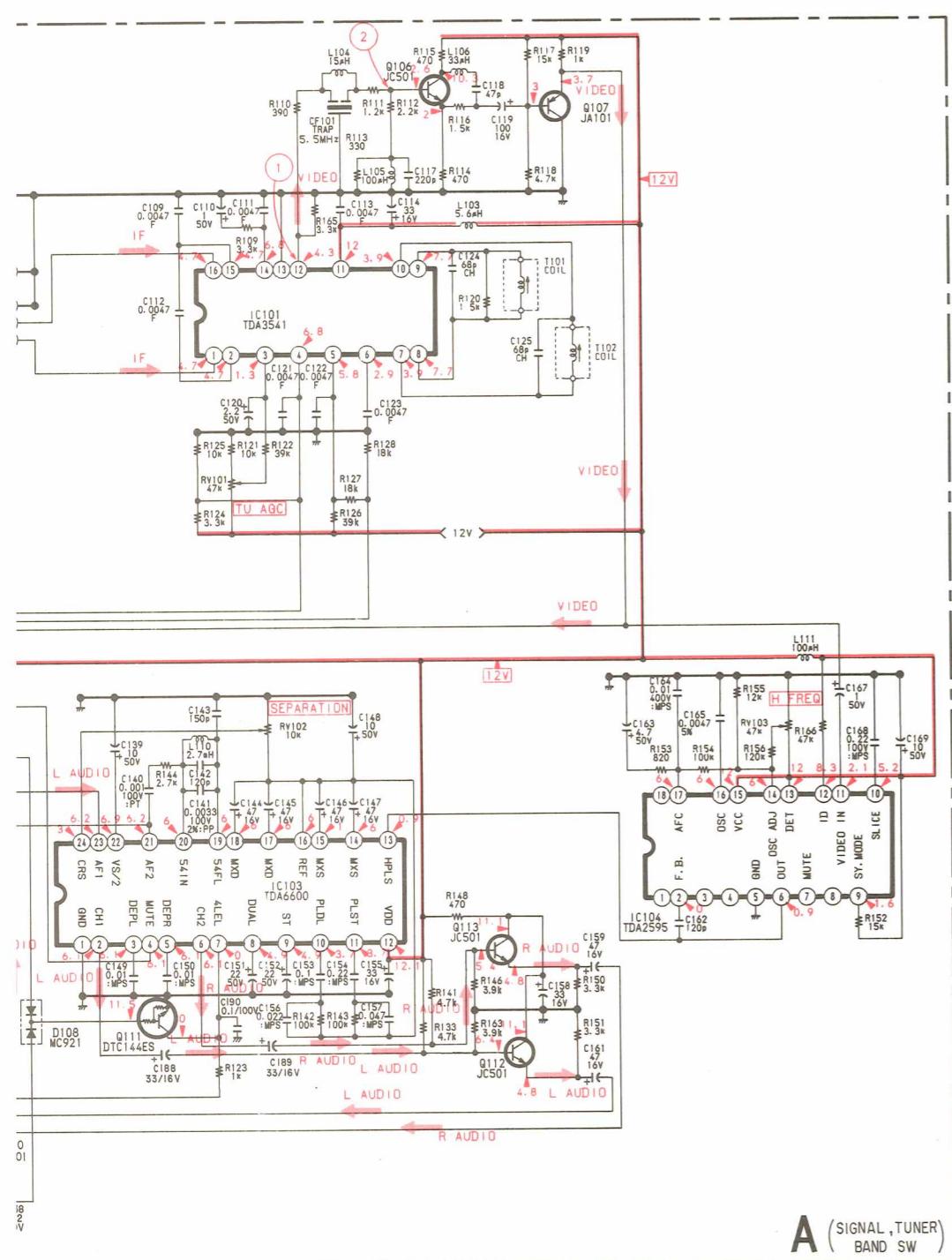
## 5-3. SCHEMATIC DIAGRAM (1)



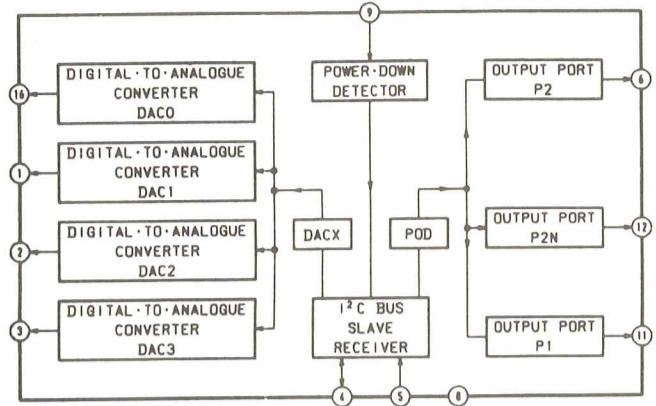
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23



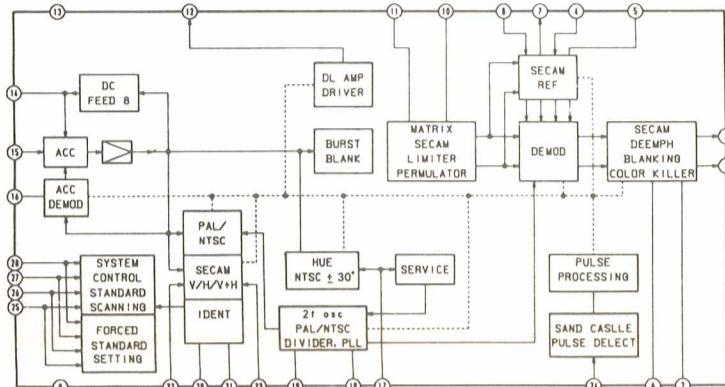
5 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31



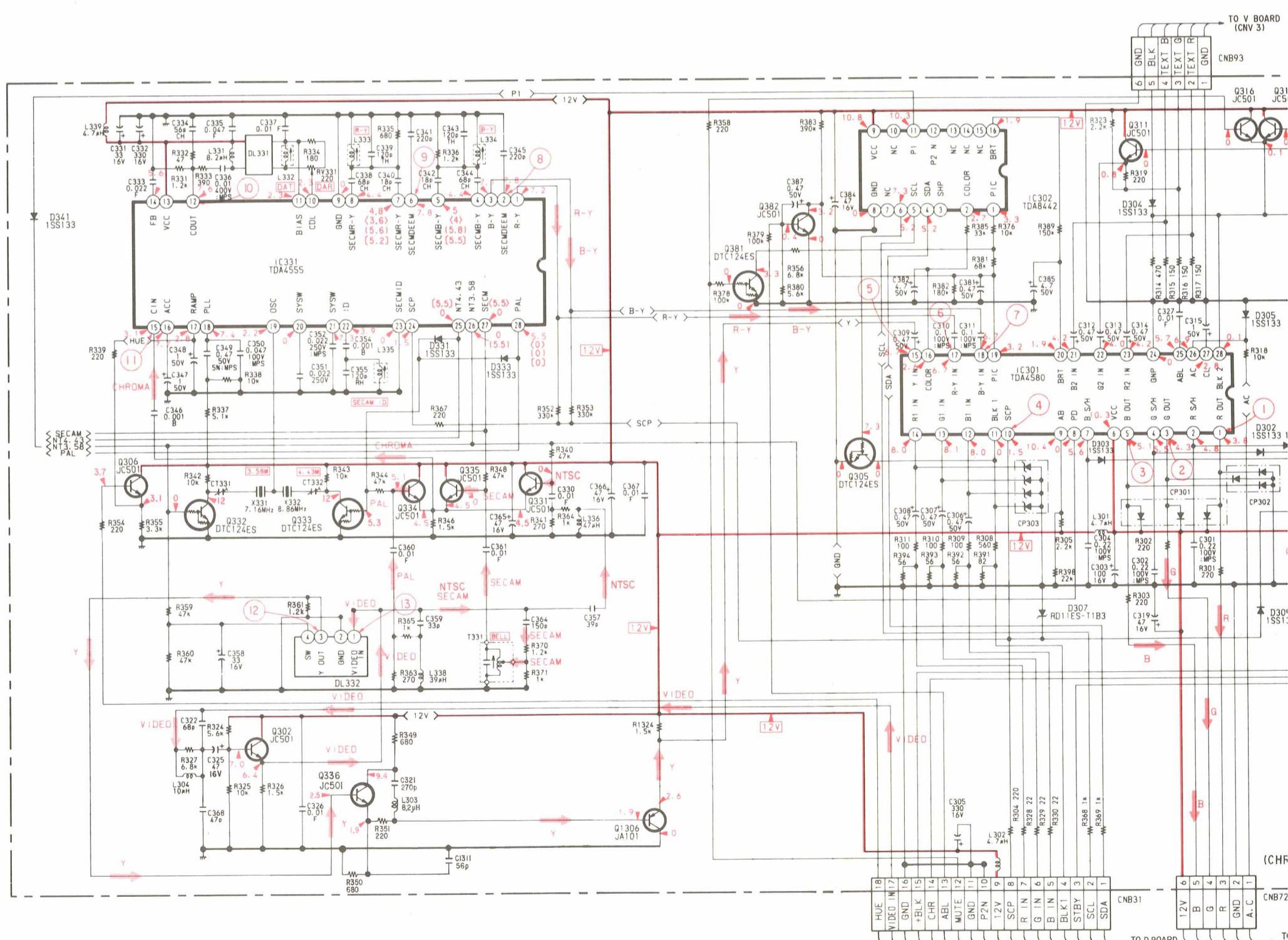
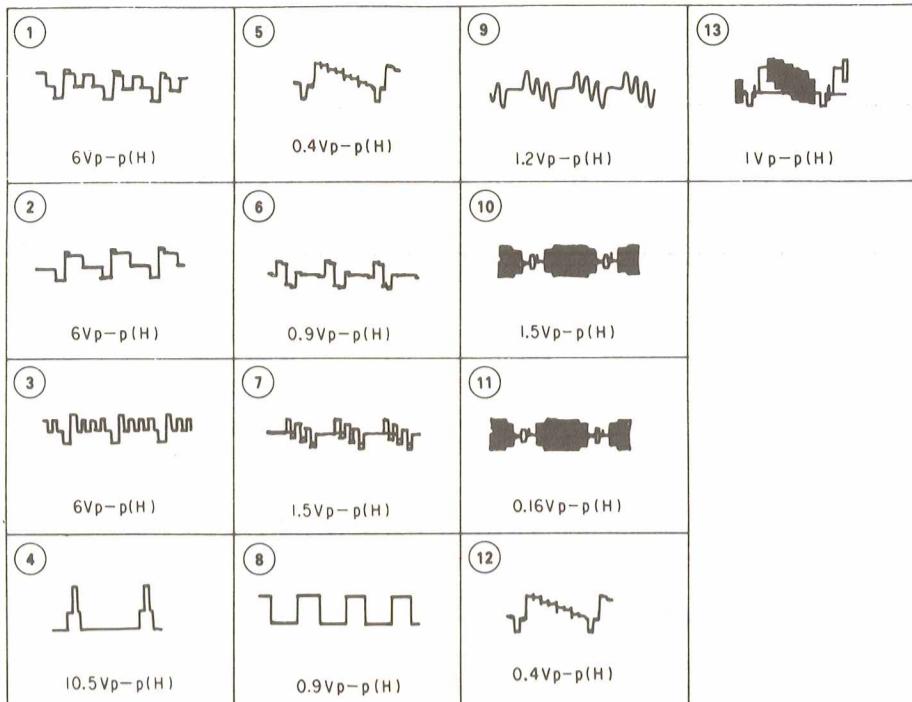
B BOARD IC302 TDA8442

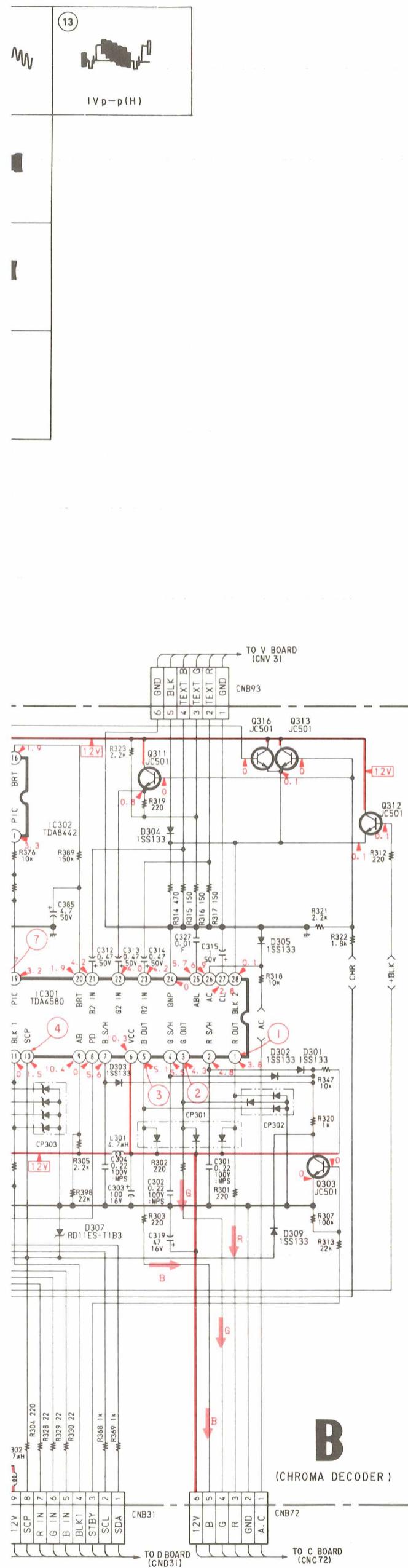


B BOARD IC331 TDA4555



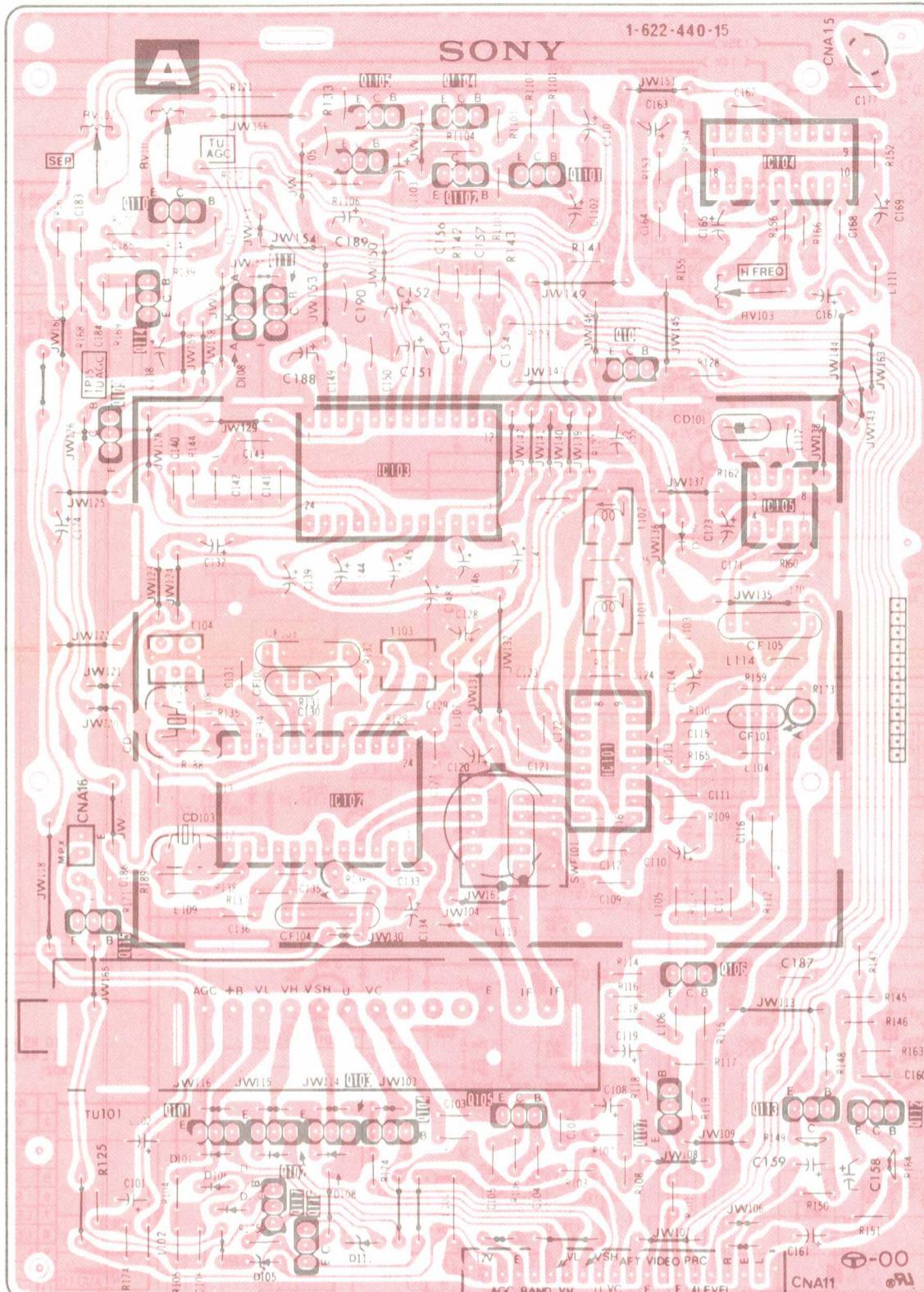
## ● B BOARD WAVEFORM



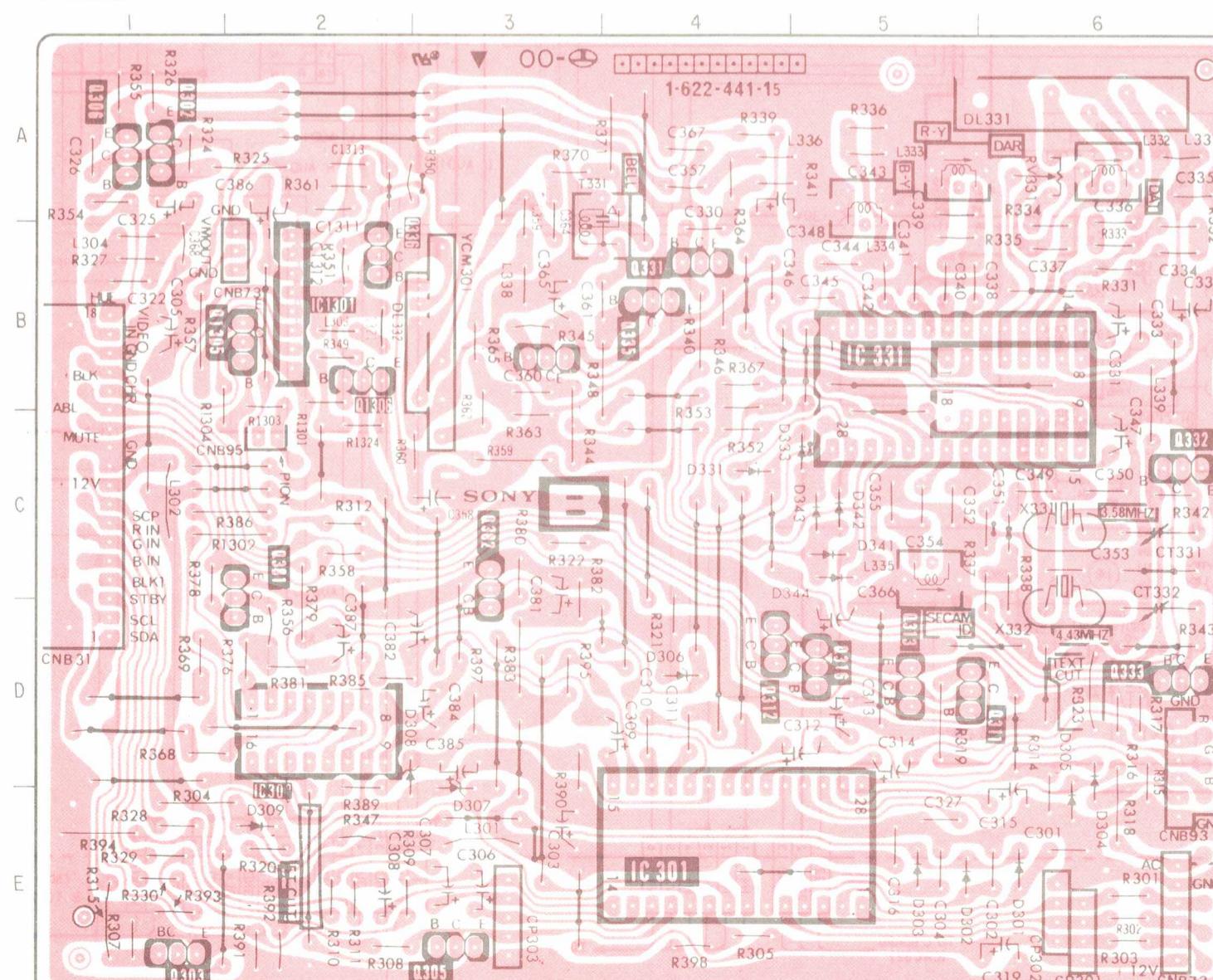


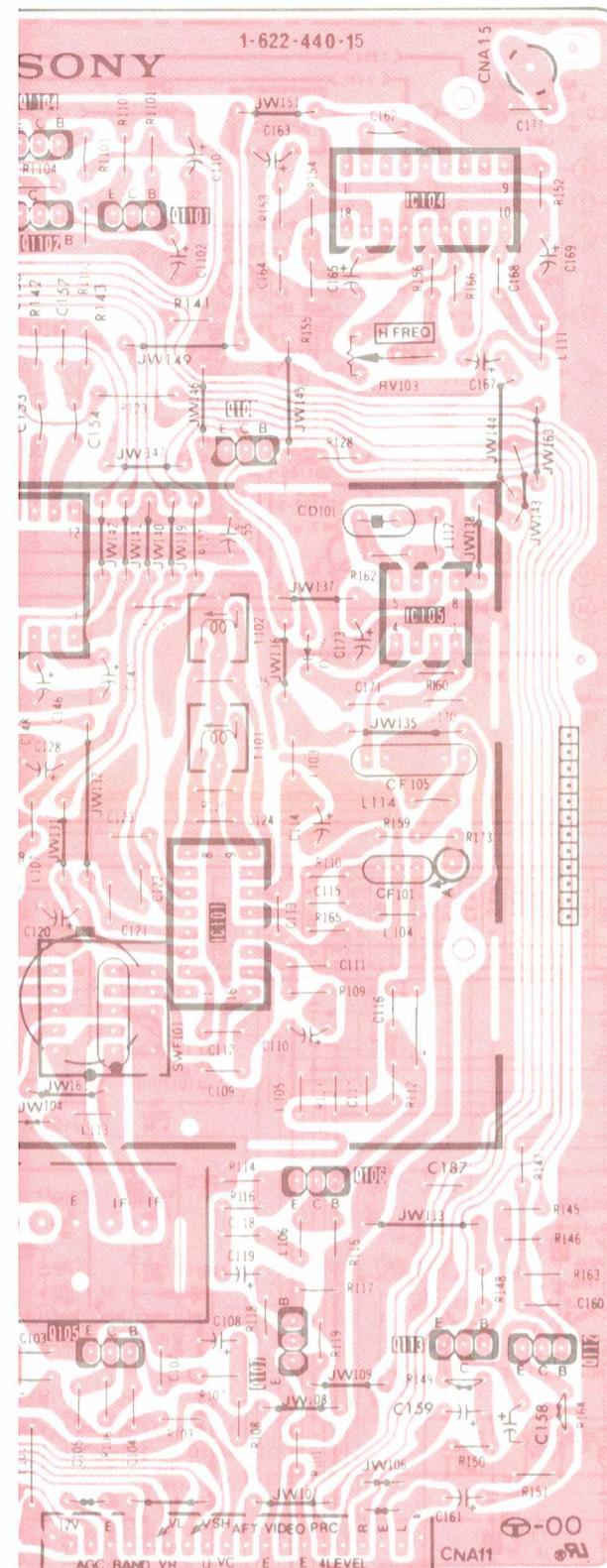
PIC MUTE	D 301	1SS133	ST BY MUTE-1
CROMA OUT-3	302	1SS133	ST BY MUTE-2
3.58M SW	303	1SS133	ST BY MUTE-3
4.43M SW	304	1SS133	BLK SW
CHROMA OUT-1	305	1SS133	PROTECT
CHROMA OUT-2	307	RD11ES-83	PROTECT
Y AMP	309	1SS133	SPOT PROTECT
MUTE	331	1SS133	SYSTEM SW-1
ABL MUTE	333	1SS133	SYSTEM SW-2
Y BUFF	341	1SS133	SYSTEM SW

— A Board —

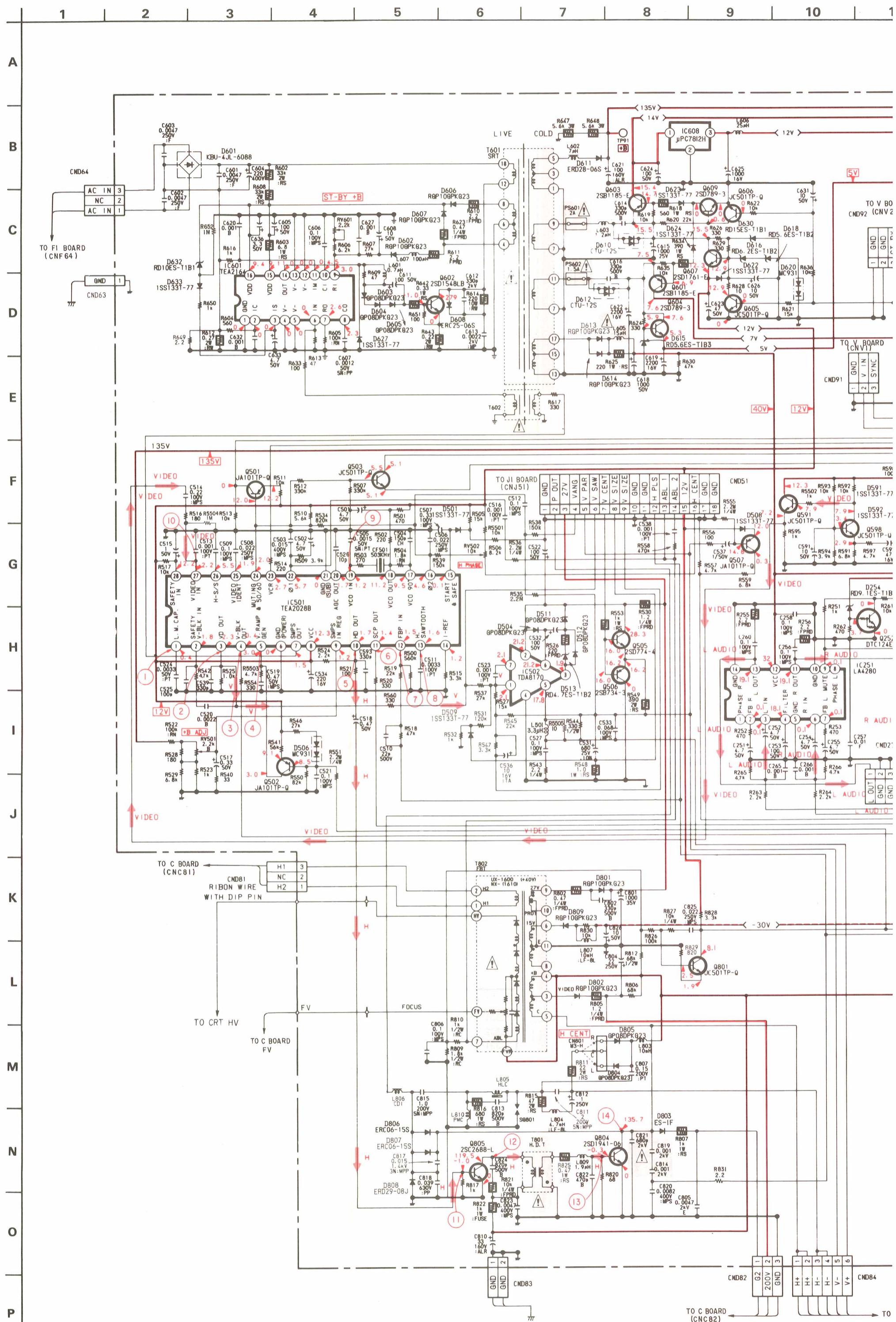


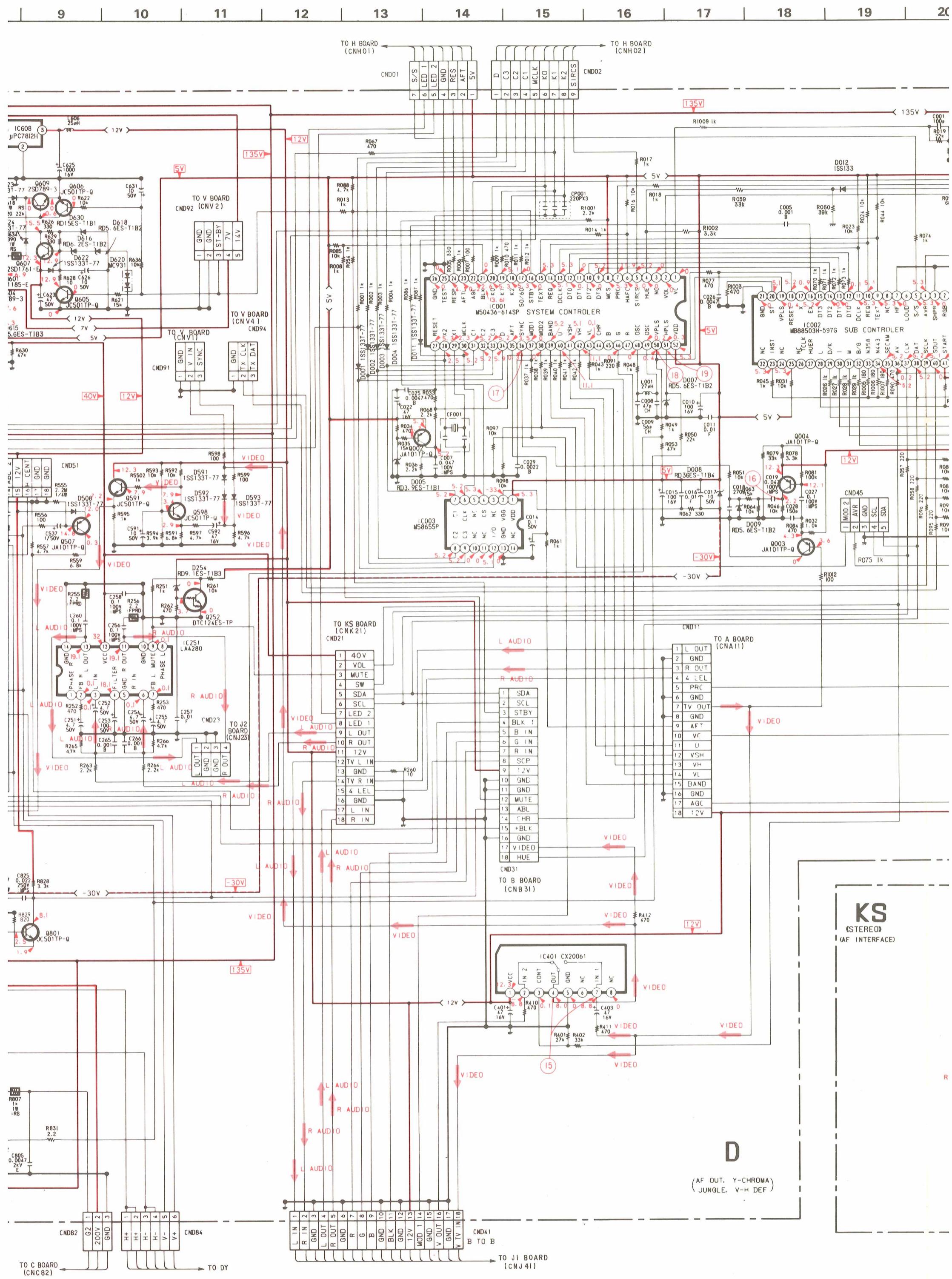
—B Board—

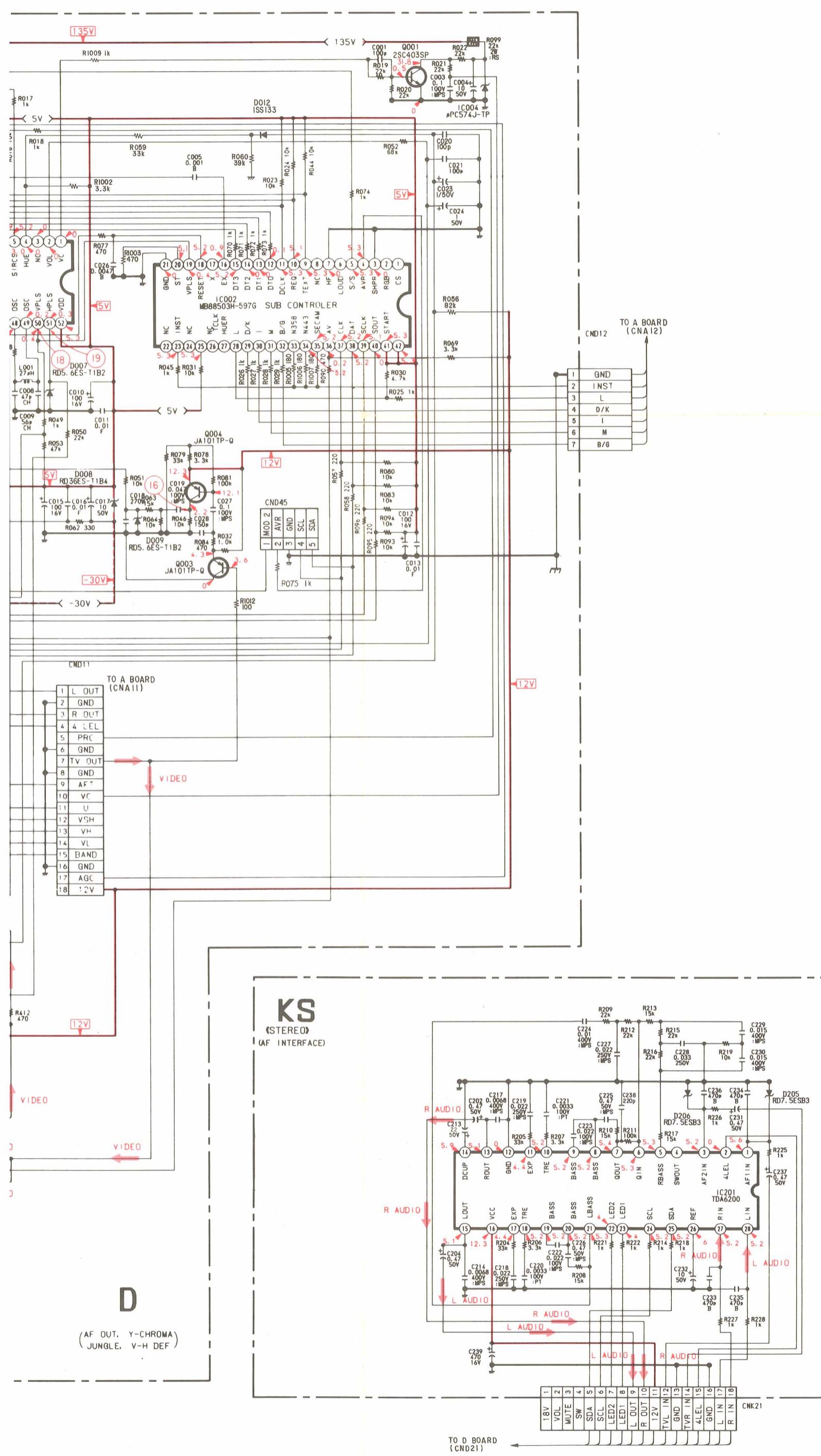




SCHEMATIC DIAGRAM (2)





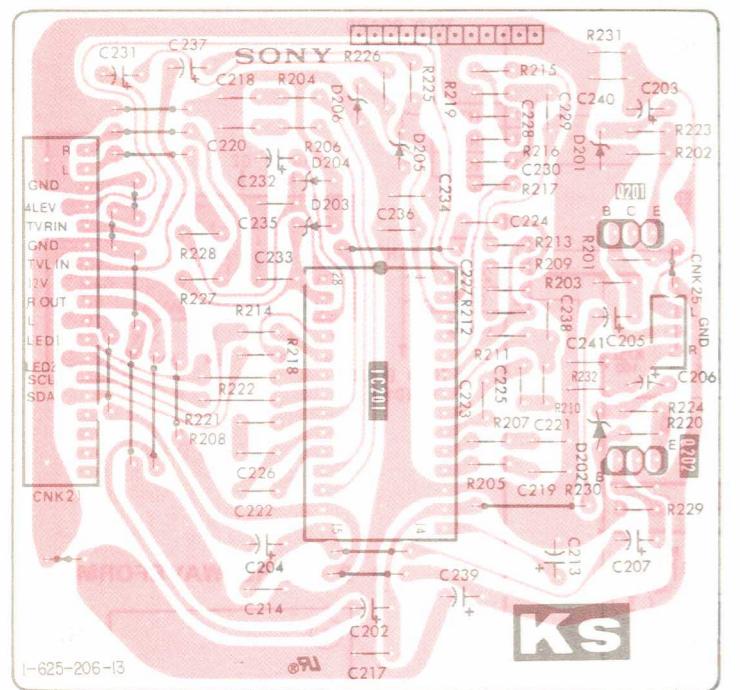


IC 001	M50436-614SP	TUNING CTL
002	MB88503H-597G	SYSTEM CTL
003	M58655P	MEMORY
004	PC574J	REG
251	LA4280	AF OUT
401	CX20061	VIDEO SW
501	TEA2028B	JUNGLE
502	TDA8170	V OUT
601	TEA2164	POWER CTL
608	PC7812H	+12V REG
Q 001	2SC403SP	VC AMP
002	JA101	RESET
003	JA101	VIDEO BUFF
004	JA101	SYNC SEP
252	DTC124ES	MUTE
501	JA101	50/60 SW
502	JA101	V SAW
503	JC501	SYNC DET
505	2SD774	V CENT-1
506	2SB734	V CENT-2
507	JA101	VLK SW
591	JC501	SYNC SW
598	JC501	SYNC AMP
601	2SB1185	ST BY SW-1
602	2SD1548	REG OUT
603	2SB1185	ST BY SW-2
604	2SD789	+5V REG
605	JC501	ST BY SW-3
606	JC501	ST BY SW-4
607	2SD1761-E	+12V REG-1
609	2SD789-04	ST BY SW-5
801	JC501	ABL AMP
804	2SD1941	H OUT
805	2SC2688	H DRIVE
D 001	ISS133	KEY SCAN-1
002	ISS133	KEY SCAN-2
003	ISS133	KEY SCAN-3
004	ISS133	KEY SCAN-4
005	RD3.9ES-B1	PROTECT-1
007	RD5.6ES-B2	PROTECT-2
008	RD36ES-B4	39V ZENER
009	RD5.6ES-B2	PROTECT-3
011	ISS133	KEY SCAN-5
012	ISS133	HUE BUFF
254	RD9.1ES-B3	10V ZENER
501	ISS133	SOFT START
504	GP08DPKG23	PONP UP
506	MC931	PROTECT-4
508	ISS133	BLK SW
509	ISS133	V LIN
511	GP08DPKG23	PROTECT-11
512	GP08DPKG23	PROTECT-12
513	RD4.7ES-B2	PROTECT-10
591	ISS133	SYNC SW-1
592	ISS133	SYNC SW-2
593	ISS133	SYNC SW-3
601	KBU4JL-6088	AC RECT
602	RGP10DPKG23	PROTECT-5
603	GP08DPKG23	REG DRIVE-1
604	GP08DPKG23	REG DRIVE-2
605	GP08DPKG23	REG DRIVE-3
606	RGP10DPKG23	REF RECT-1
607	RGP10DPKG23	REF RECT-2
608	ERC25-06S	PULSE CLIPPER
610	CTU-12S	+14V RECT
611	ERD28-06S	+135V RECT
612	CTU-12S	+7V RECT
613	RGP10DPKG23	AF RECT
614	RGP10DPKG23	AF RECT
615	RD5.6ES-B1	REG-4
616	RD6.2ES-B2	REG-1
618	RD5.6ES-B2	REG-3
620	MC931	PROTECT-6
622	ISS133	PROTECT-8
623	ISS133	STBY SW-1
624	ISS133	STBY SW-2
627	ISS133	PROTECT-9
630	RD15ES-B1	REG
632	RD10ES-B1	PROTECT
633	ISS133	PROTECT
801	RGP10DPKG23	27V RECT
802	RGP10DPKG23	200V RECT
803	ES1F	G2 RECT
804	GP08DPKG23	H CENT-1
805	GP08DPKG23	H CENT-2
806	ERC06-15S	H DANPER-1
807	ERC06-15S	H DANPER-2
808	ERD29-08J	PIN DANPER
809	RGP10DPKG23	-30V RECT

IC 201	TDA6200	AF INTERFACE
D 205	RD7.5ESB3	PROTECT
206	RD7.5ESB3	PROTECT

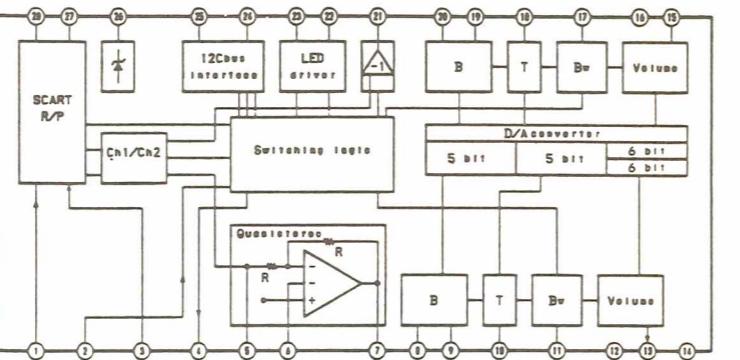
## PRINTED WIRING BOARDS (2)

## -KS Board-

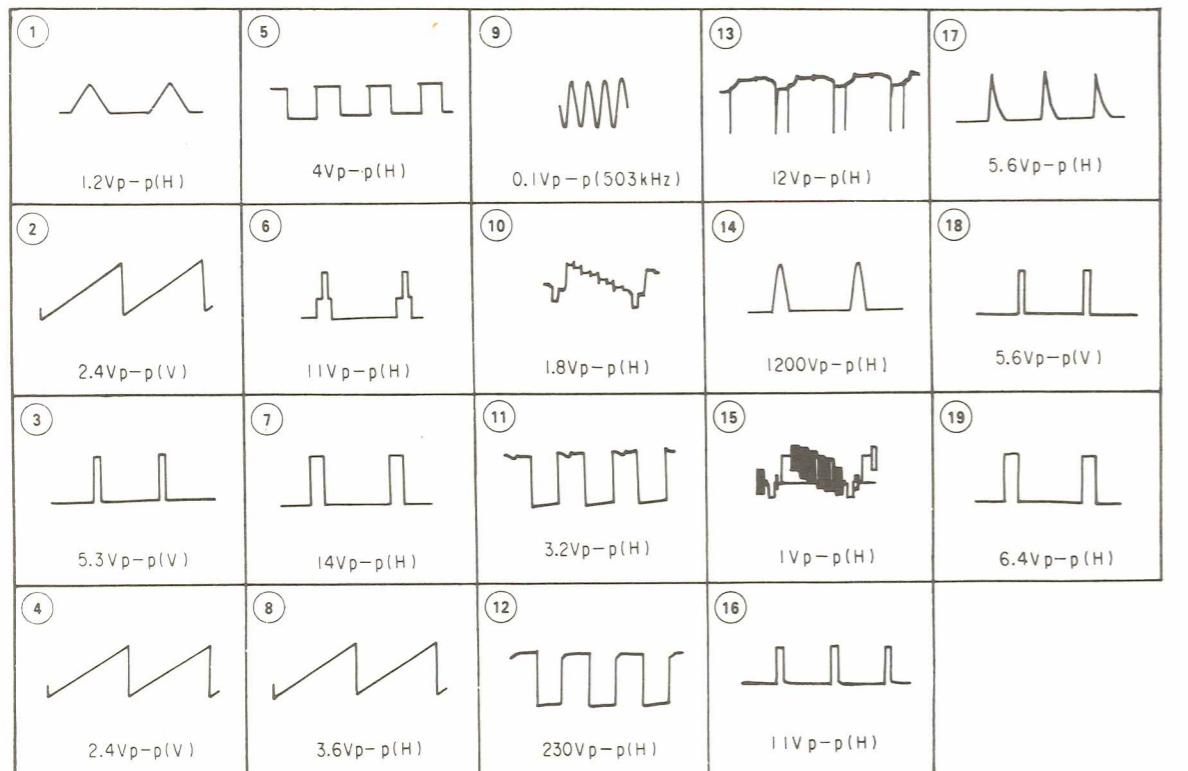


[ STEREO ] KS

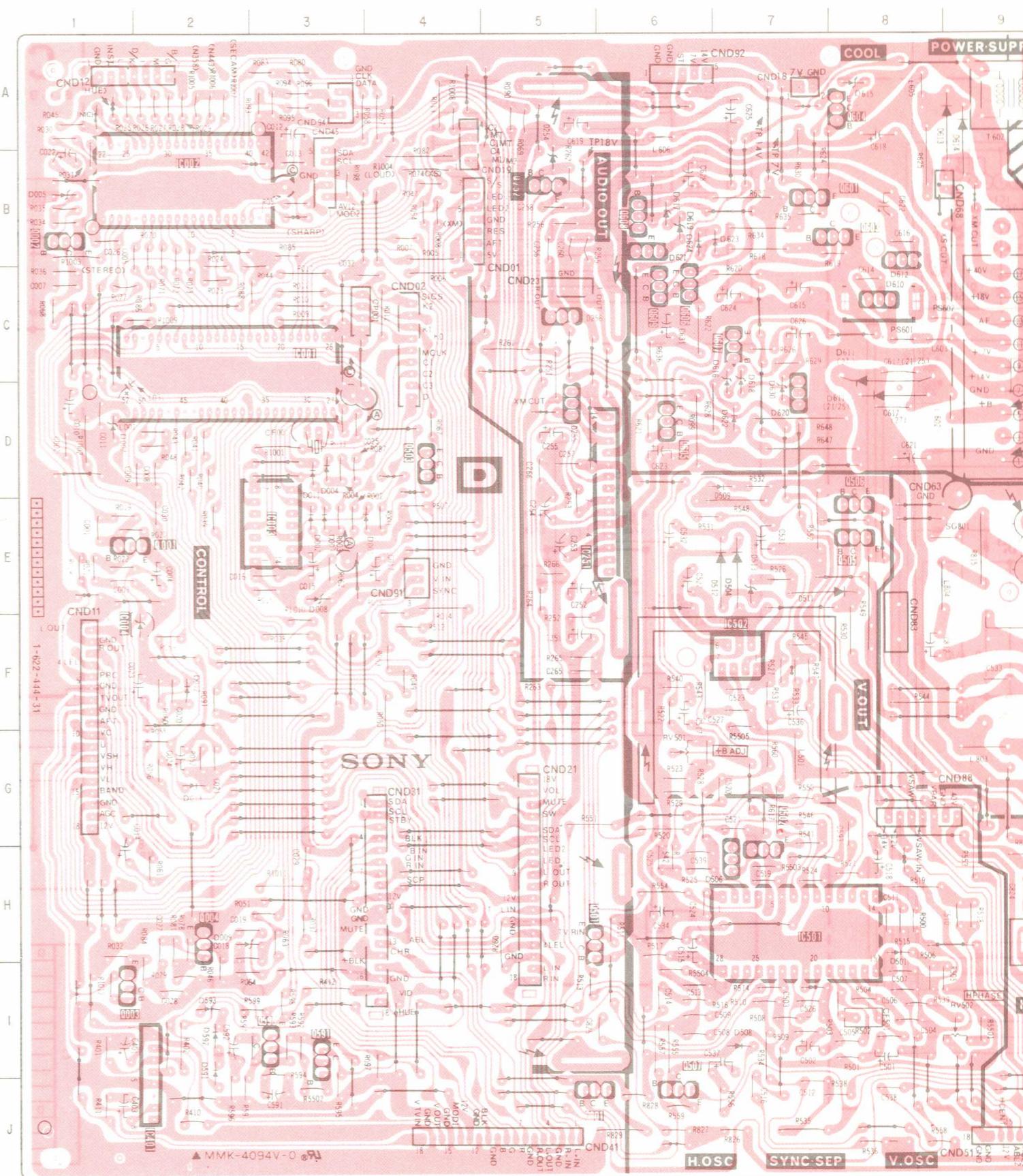
KS BOARD IC201 TDA6200



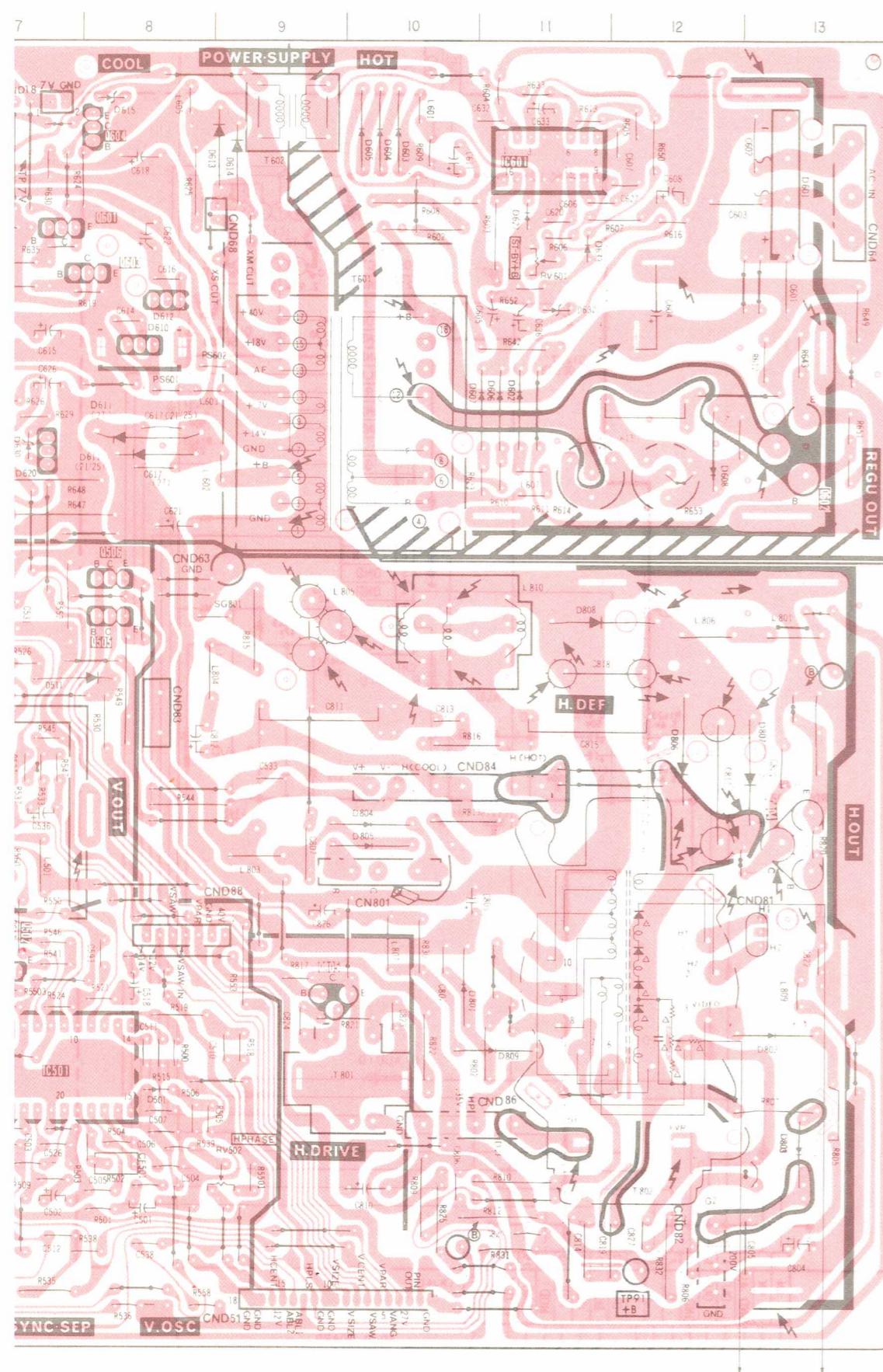
## • D BOARD WAVEFORM



## -D Board-

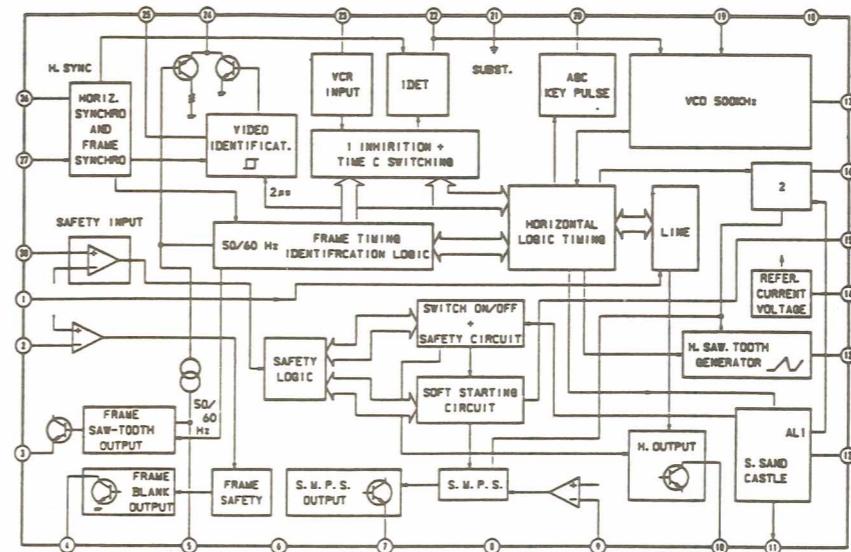


D

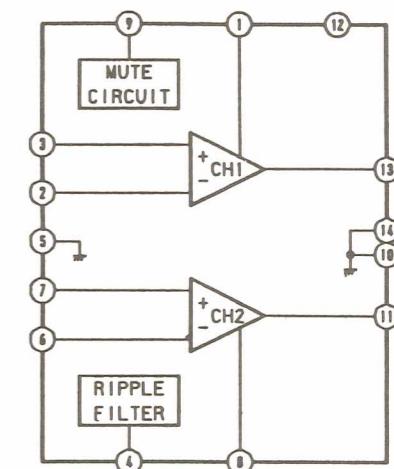


IC	
IC001	C-3
IC002	B-2
IC003	E-3
IC004	F-2
IC251	E-6
D508	I-7
D509	D-7
D511	E-8
D512	E-7
D513	E-7
D591	I-2
D592	I-2
D593	I-2
D601	B-13
D602	C-11
D603	A-10
D604	A-10
D605	A-10
D606	C-11
D607	C-11
D608	D-11
Q001	E-1
Q002	B-1
Q003	I-1
Q004	H-2
Q252	B-5
Q501	H-5
Q502	H-7
Q503	D-4
Q505	E-8
Q506	E-8
Q507	J-6
Q591	I-3
Q598	I-3
Q601	B-7
Q602	D-13
D610	C-8
D611	D-8
D612	C-8
D613	A-9
D614	A-9
D615	A-7
D616	D-7
D617	B-6
D618	D-7
D619	B-6
D620	C-7
D621	B-6
D622	D-7
D623	B-7
D624	B-6
Q603	B-8
Q604	A-8
Q605	D-6
Q606	C-6
Q607	C-7
Q608	B-6
Q609	C-6
Q801	J-5
Q804	G-13
Q805	H-9
D801	H-10
D802	H-13
D803	I-13
D804	F-10
D805	G-10
D806	F-12
D807	F-13
D808	E-11
D809	H-11
D001	E-3
D002	E-3
D003	E-3
D004	D-3
D005	B-1
D007	D-1
D008	E-3
D009	H-2
D011	D-3
D012	F-2
D013	G-2
D254	B-5
D501	H-8
D504	E-7
D506	H-7

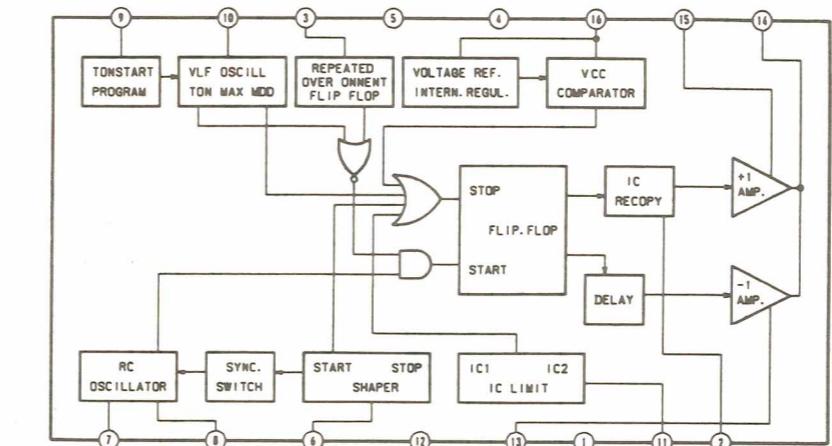
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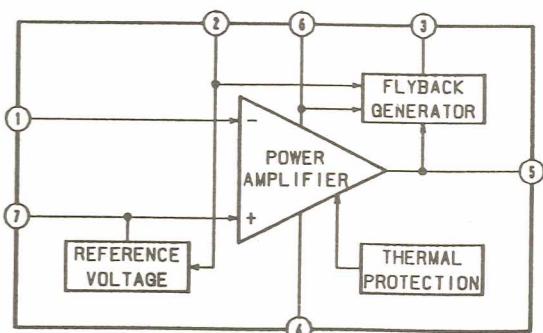
## D BOARD IC251 LA4280



## D BOARD IC601 TEA2164



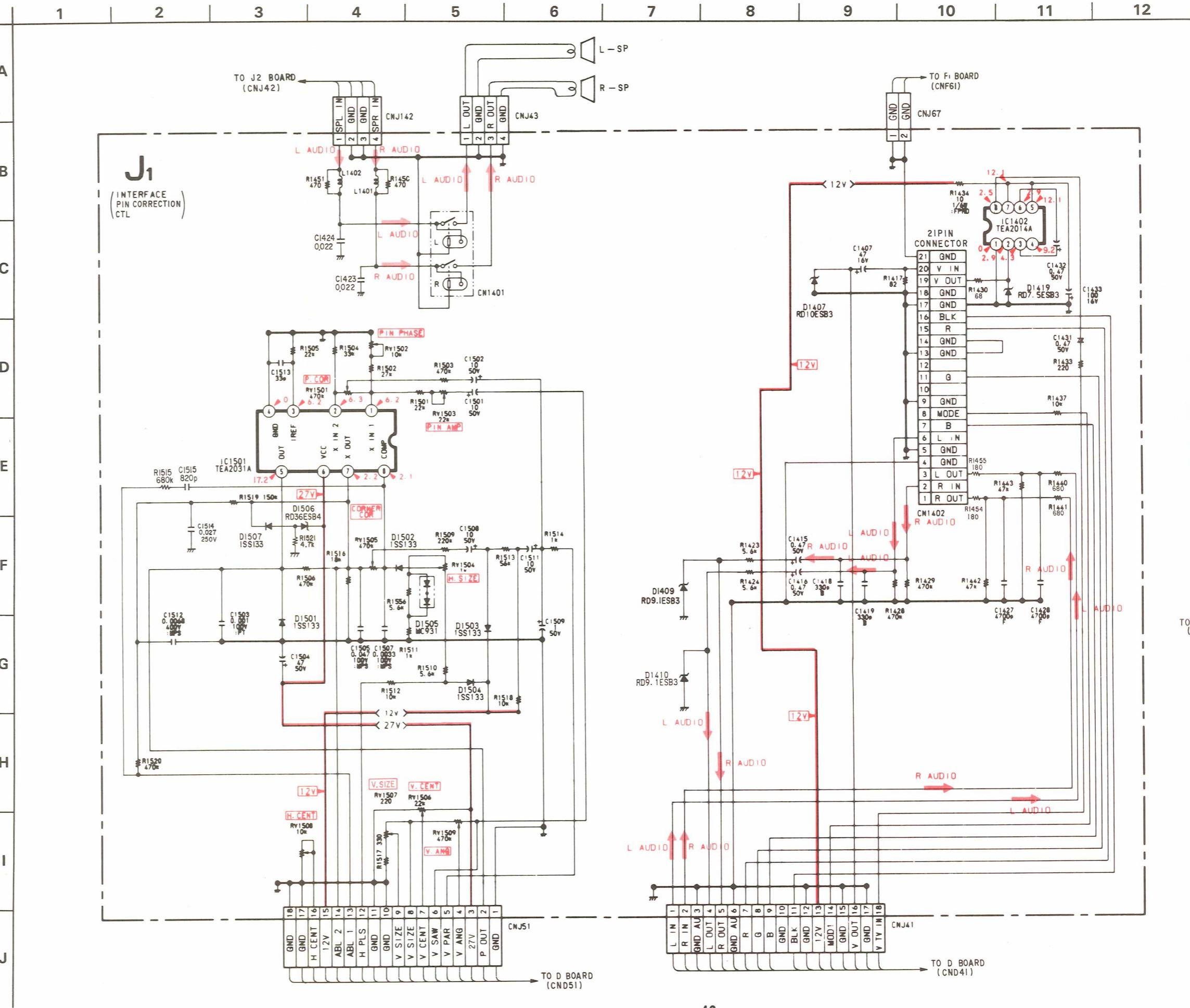
## D BOARD IC502 TDA8170



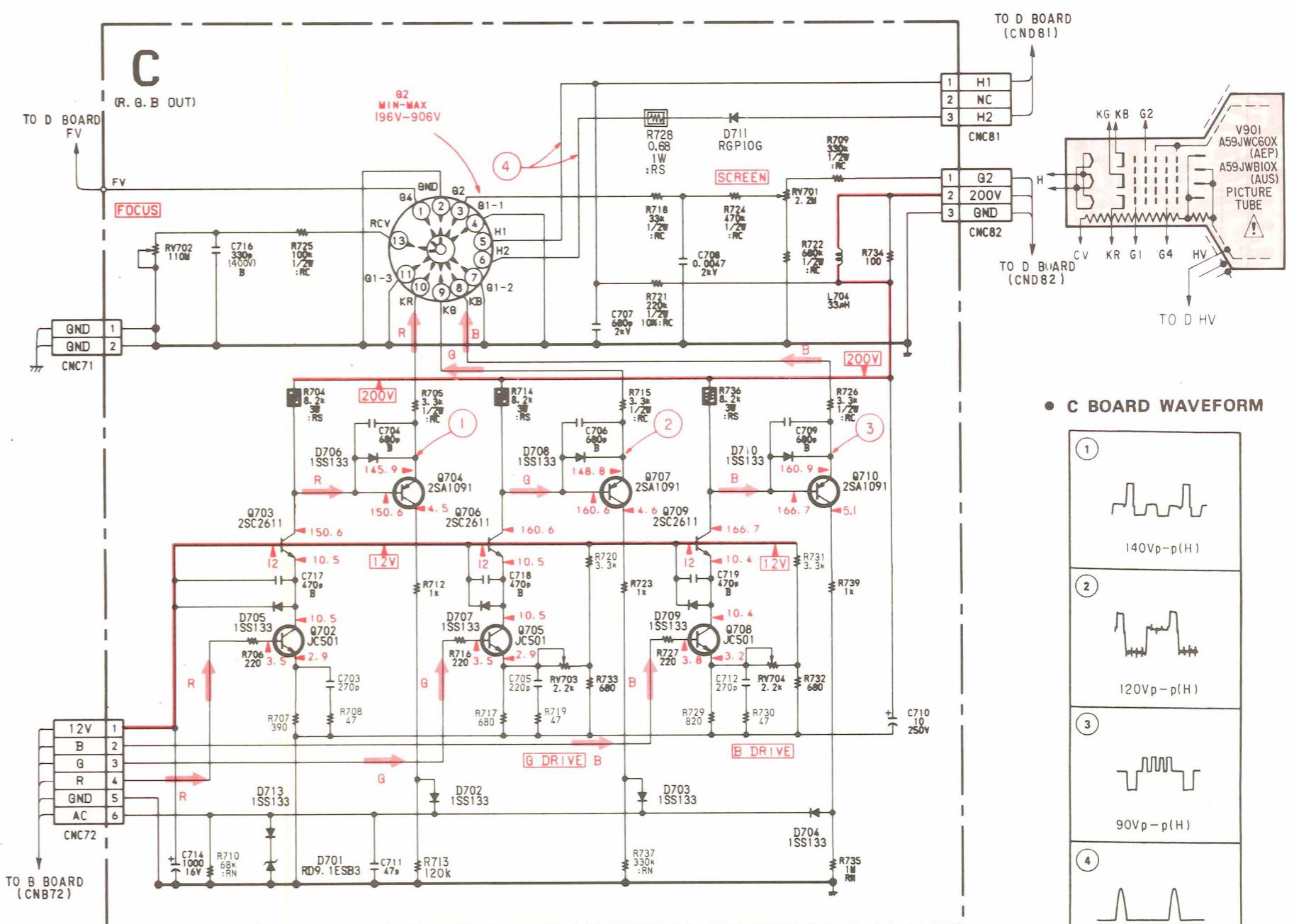
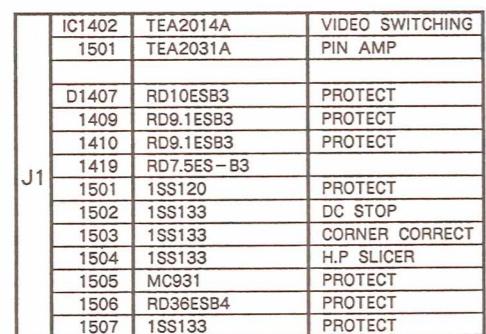
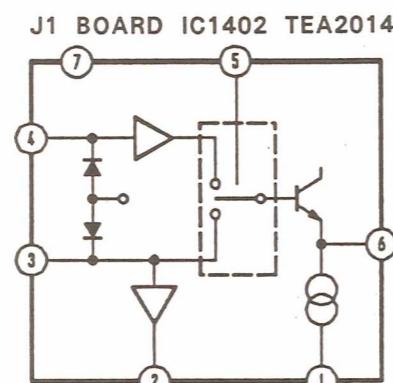
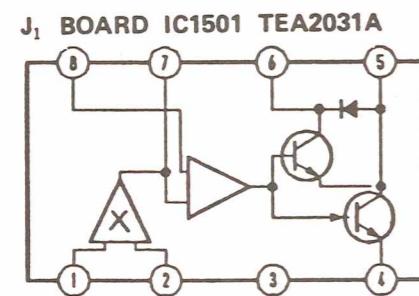
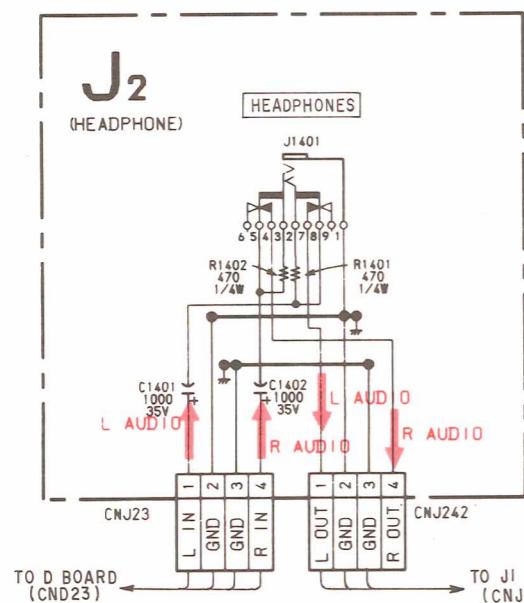
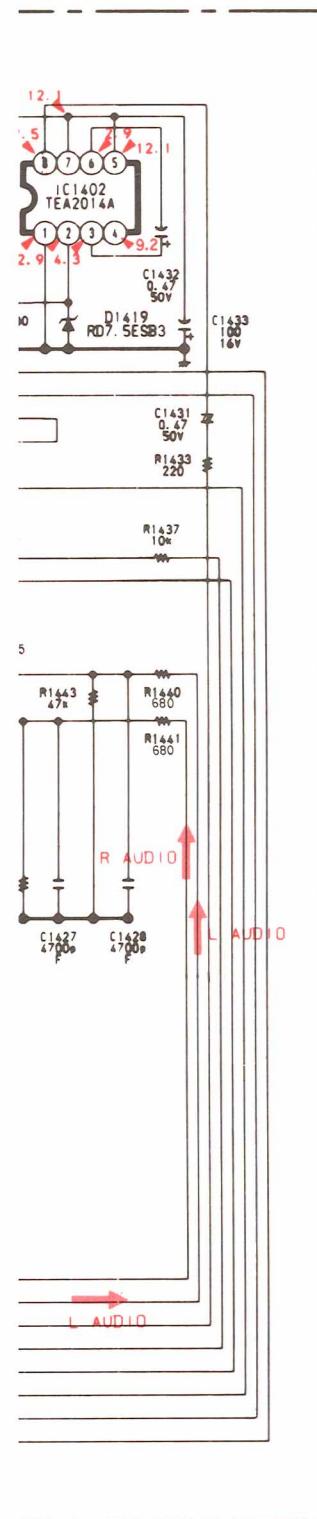
## NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

### SCHEMATIC DIAGRAM (3)



11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |



C	Q 702	JC501	R AMP	704	1SS133	AC MIX-3
	703	2SC2611	R OUT	705	1SS133	PROTECT-2
	704	2SA1091	R AC AMP	706	1SS133	PROTECT-3
	705	JC501	G AMP	707	1SS133	PROTECT-4
	706	2SC2611	G OUT	708	1SS133	PROTECT-5
	707	2SA1091	G AC AMP	709	1SS133	PROTECT-6
	708	JC501	B AMP	710	1SS133	PROTECT-7
	709	2SC2611	B OUT	711	RGP10G	PROTECT-8
	710	2SA1091	B AC AMP	713	1SS133	PROTECT
	D 701	RD9.1ES-B3	PROTECT-1			
	702	1SS133	AC MIX-1			
	703	1SS133	AC MIX-2			

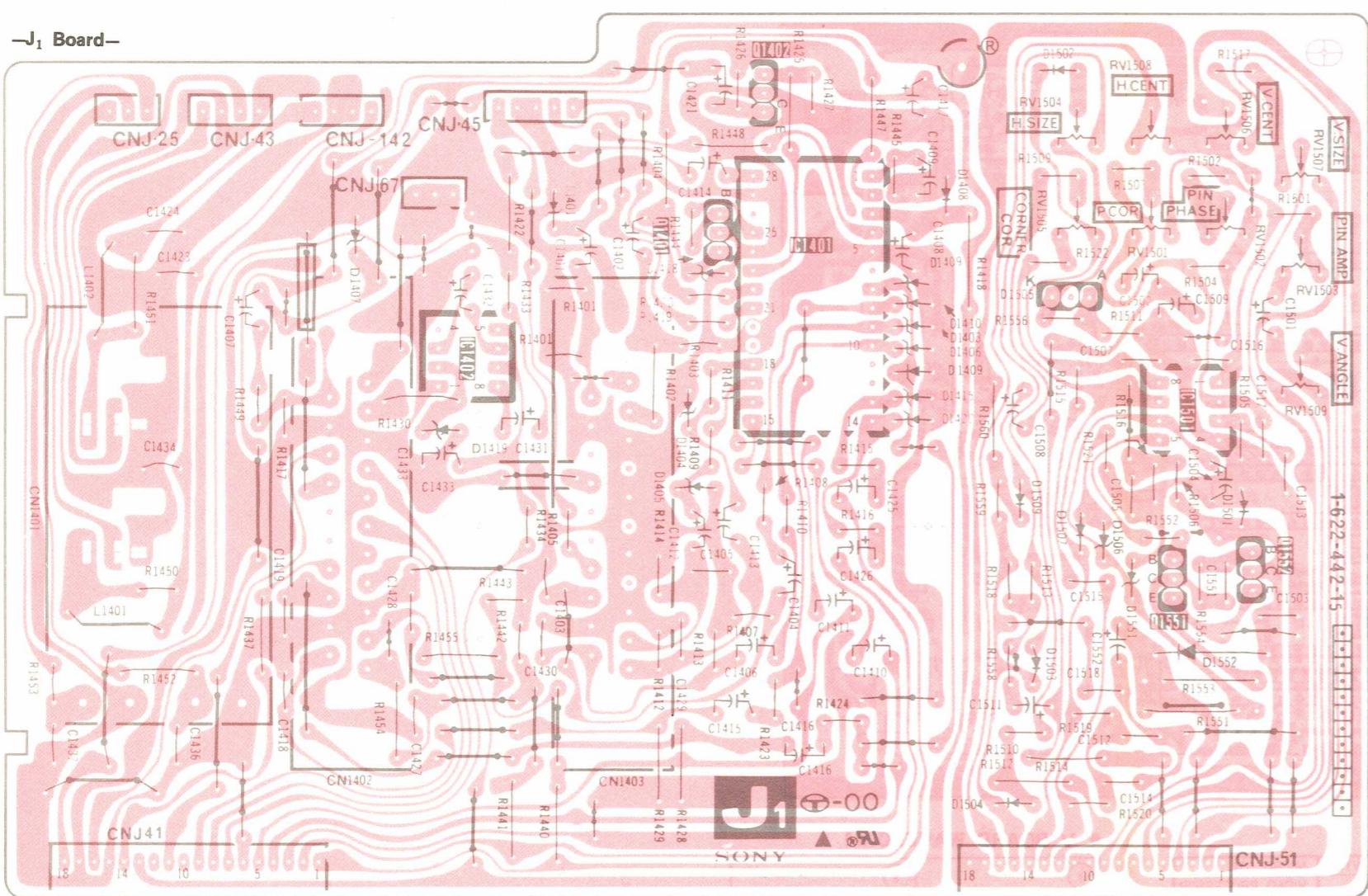
J1 [INTERFACE  
PIN CORRECTION CTL]

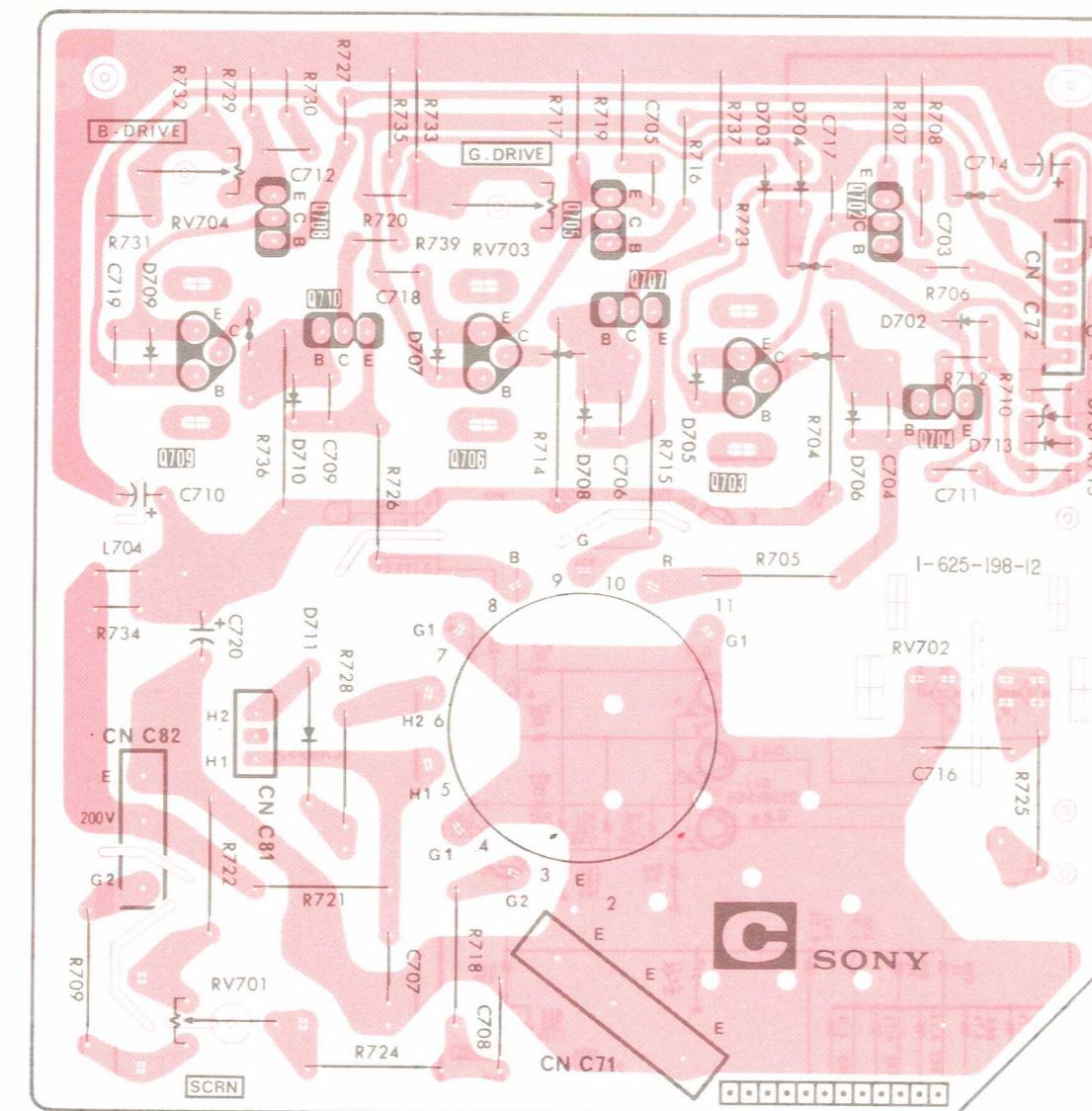
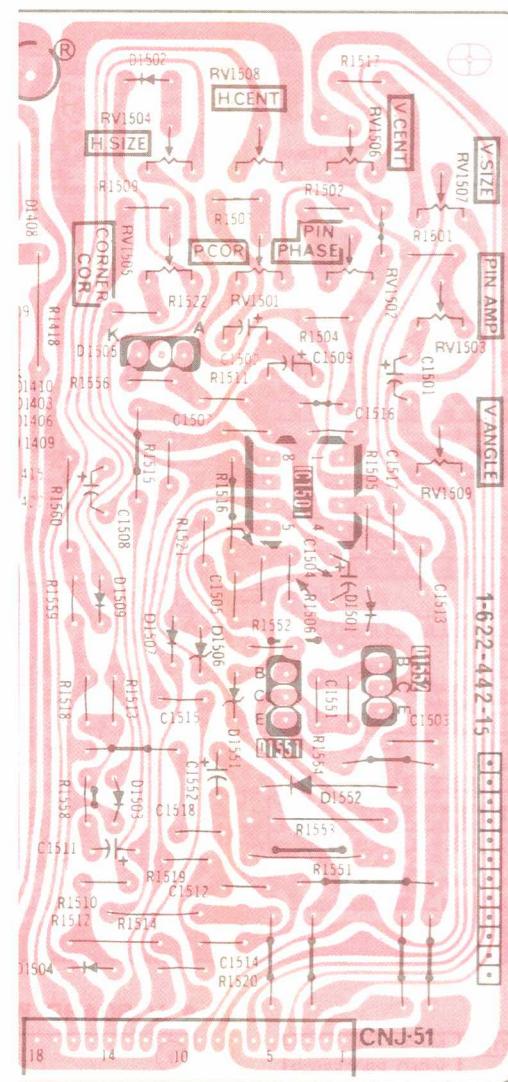
J2 [HEADPHONE]

C [R·G·B OUT]

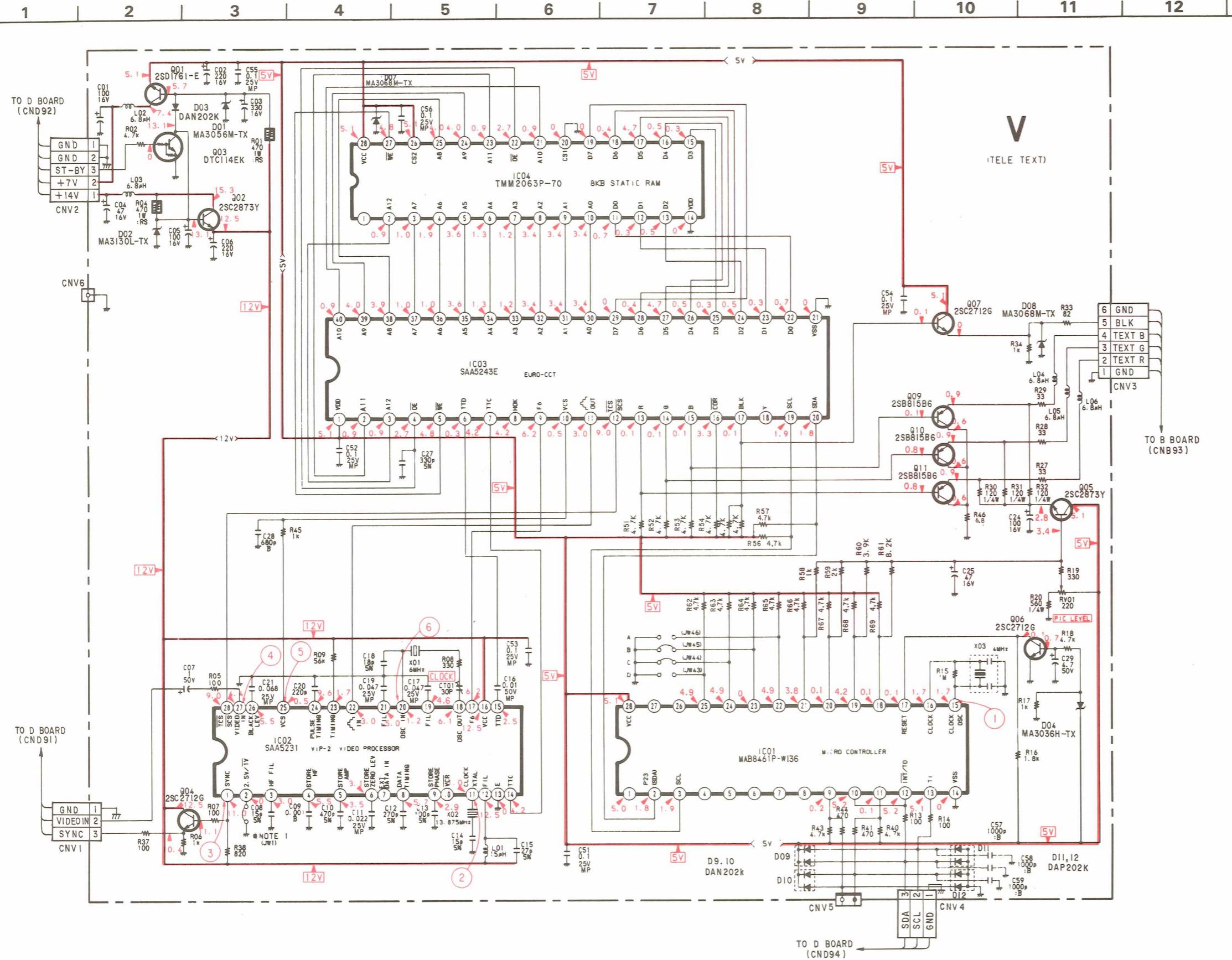
## PRINTED WIRING BOARDS (3)

## -J1 Board-



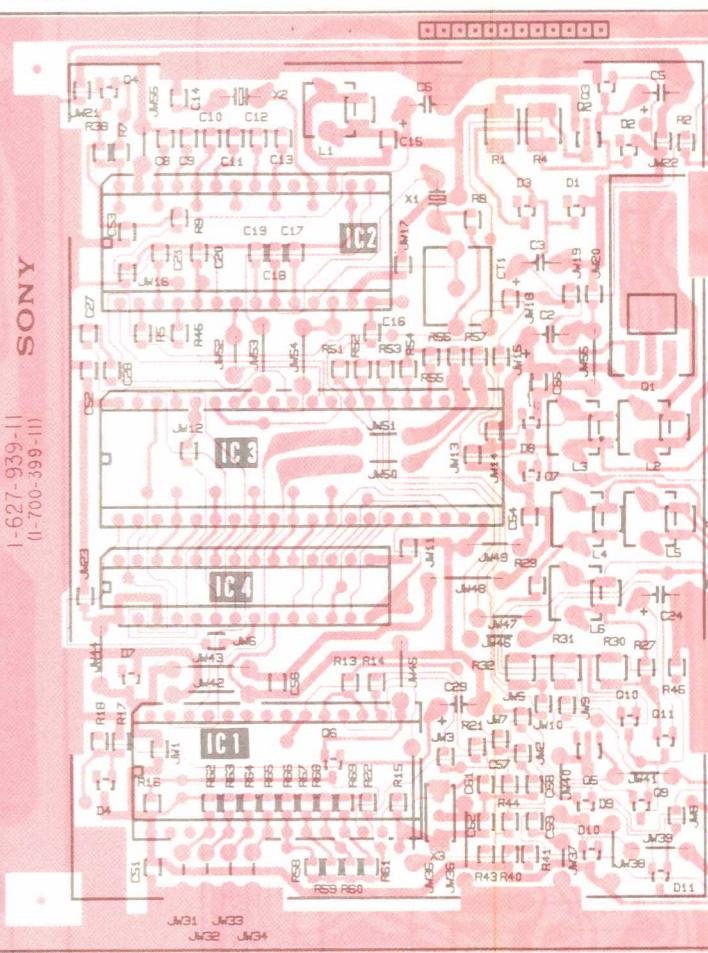
**J1**INTERFACE  
PIN CORRECTION CTL**J2**[HEADPHONE] **C** [R·G·B OUT]**-C Board-**

## SCHEMATIC DIAGRAM (4)

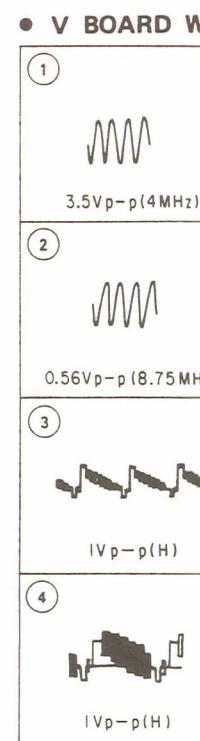


## PRINTED WIRING BOARDS (4)

## -V Board-



IC 01	MAB8461P-W136	MICRO CTL
02	SAA5231-V4	VIDEO PROCESSOR
03	SAA5243E	EURO CCT
04	TMM2063P-70	8KB STATIC RAM
Q 01	2SD1761-E	5V REG
02	2SC2873Y	12V REG
03	DTC114EK	ST BY
04	2SC2712G	SYNC BUFF
05	2SC2873Y	PIC LEVEL
06	2SC2712G	RESET
07	2SC2712G	BLK OUT
09	2SB815B6	B OUT
10	2SB815B6	G OUT
11	2SB815B6	R OUT
D 01	MA3056M-TX	5V REG
02	MA3130L-TX	12V REG
03	DAN202K	ST BY
04	MA3036H-TX	RESET
07	MA3068M-TX	PROTECT-1
08	MA3068M-TX	PROTECT-2
09	DAN202K	PROTECT
10	DAN202K	PROTECT
11	DAP202K	PROTECT
12	DAP202K	PROTECT



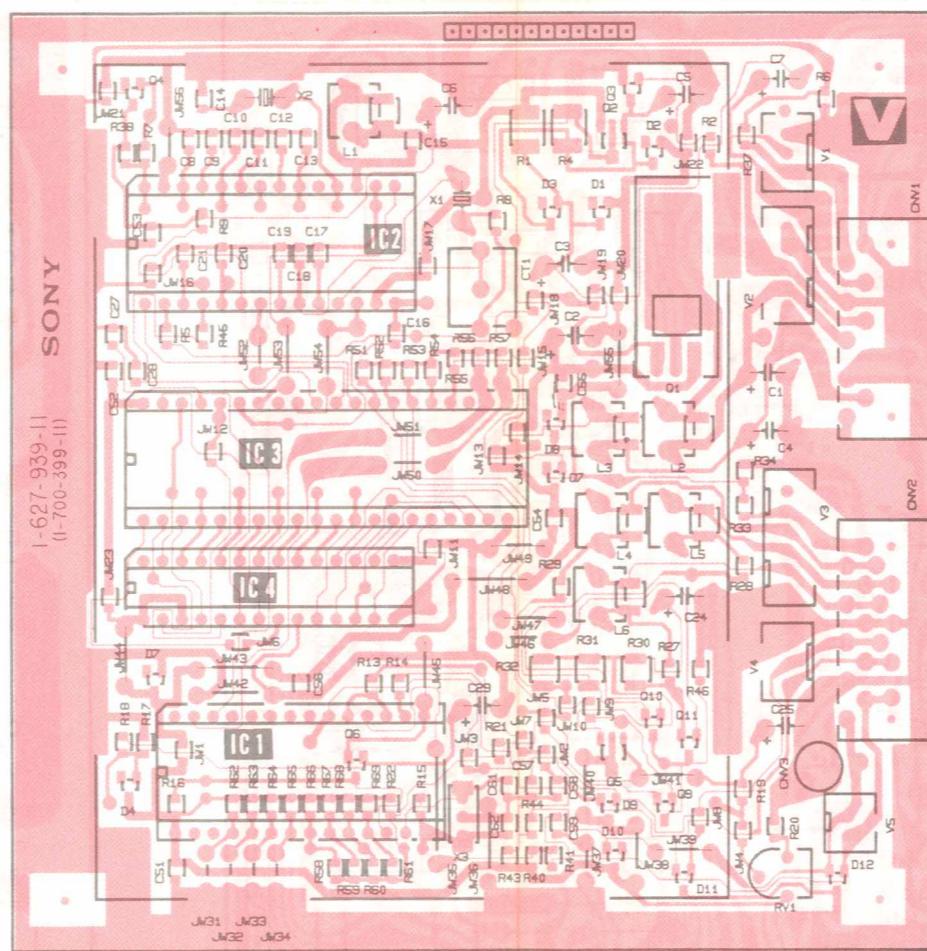
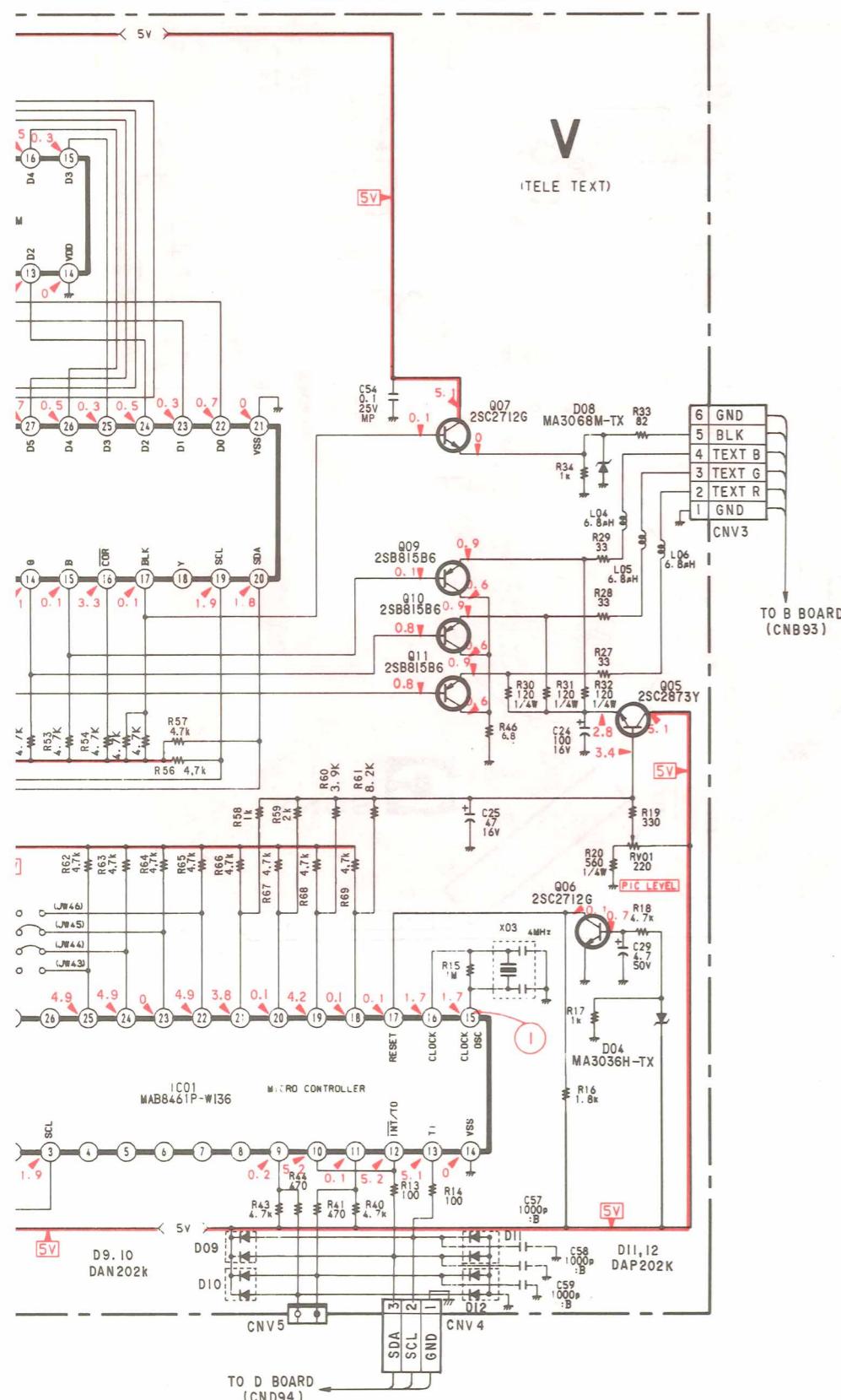
## PRINTED WIRING BOARDS (4)

✓

TELE TEXT]

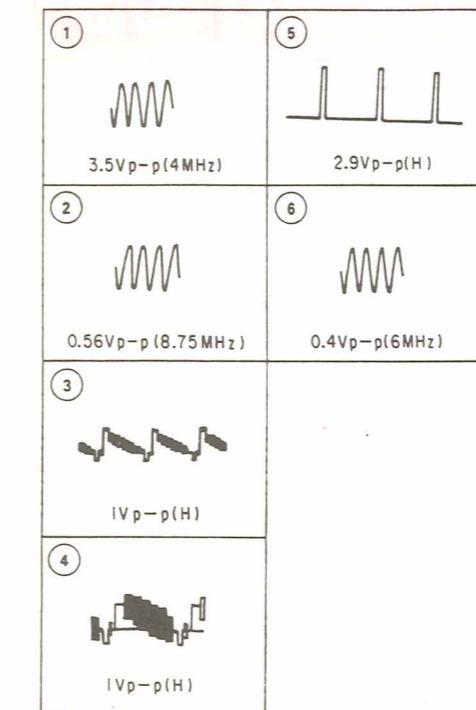
8 9 10 11 12 13 14 15 16 17 18 19

**-V Board-**

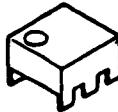
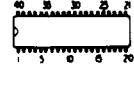
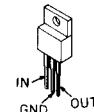
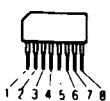
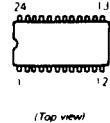
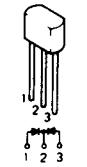
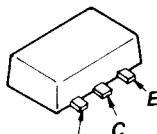
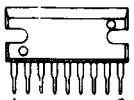
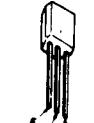
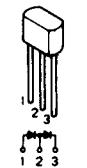
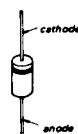
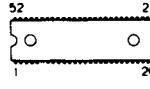
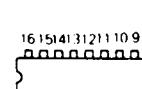
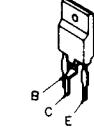
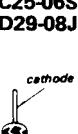
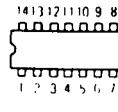
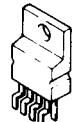
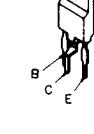
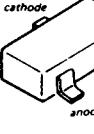
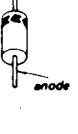
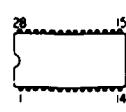
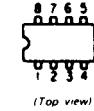
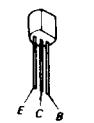
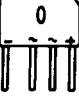
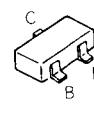
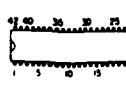


### • V BOARD WAVEFORM

V	IC 01	MAB8461P-W136	MICRO CTL
	02	SAA5231-V4	VIDEO PROCESSOR
	03	SAA5243E	ECC CCT
	04	TMM2063P-70	8KB STATIC RAM
	Q 01	2SD1761-E	5V REG
	02	2SC2873Y	12V REG
	03	DTC114EK	ST BY
	04	2SC2712G	SYNC BUFF
	05	2SC2873Y	PIC LEVEL
	06	2SC2712G	RESET
	07	2SC2712G	BLK OUT
	09	2SB815B6	B OUT
	10	2SB815B6	G OUT
	11	2SB815B6	R OUT
	D 01	MA3056M-TX	5V REG
	02	MA3130L-TX	12V REG
	03	DAN202K	ST BY
	04	MA3036H-TX	RESET
	07	MA3068M-TX	PROTECT-1
	08	MA3068M-TX	PROTECT-2
	09	DAN202K	PROTECT
	10	DAN202K	PROTECT
	11	DAP202K	PROTECT
	12	DAP202K	PROTECT



5-5. SEMICONDUCTORS

BX-1387	SAA5243E	$\mu$ PC78121-1	2SB1185 2SD1761	ISS119 ISS120 ISS133 RD3.6ES-T1B1 RD3.9ES-T1B1 RD4.7ES-T1B2 RD5.6ES-T1B2 RD5.6ES-T1B3 RD6.2ES-T1B1 RD6.2ES-T1B2 RD7.5ES-T1B3 RD9.1ES-T1B3 RD10ES-T1B1 RD10ES-T1B3 RD11ES-T1B3 RD15ES-T1B1 RD36ES-T1B4	MA3036H-TX MA3056M-TX MA3068M-TX MA3130L-TX
	 (Top view)	 IN GND OUT			
CX20061	TDA2558	2SA1091 JA101TA JC501TA	2SC2611 2SC2688		
 1 2 3 4 5 6 7 8	 (Top view)	 E C B	 letter side E C B	 cathode anode 1 2 3	
LA4280	TDA2595	2SC403SP DTA114ES DTA144ES DTC114EK DTC124ES DTC144ES	2SC2873Y	 B C	ERD28-06S ES1F GP08DPKG23 RGP01-17PKG23 RG10GPKG23
 1 2 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	 (Top view)	 letter side E C B	 B C	 cathode anode 1 2 3	
M50436-614SP	TDA3541 TDA8442 TEA2164	16 15 14 13 12 11 10 9	2SD1941	 anode cathode	SE303AY
 1 2 26 27	 (Top view)	 2SC2785	 B C E	 anode cathode	CTU-12S
M58655P	TDA8170	14 13 12 11 10 9 8	2SD789	 anode cathode	SR632D
 1 2 3 4 5 6 7	 TOP VIEW	 2SD774	 cathode anode	 cathode anode	ERC06-15S ERC25-06S ERD29-08J
MAB8461P-W136 TDA4555 TDA4580 TDA6200 TDA6600 TEA2028B TMM2063P-70 SAA5231	TEA2014A TEA2031A	8 7 6 5 1 2 3 4	 cathode anode	 cathode anode	TLR124
 1 2 14 15	 (Top view)	 E C B	 cathode anode	 long short anode cathode	KBU-4JL
MB88503H-597G	$\mu$ PC574J	2SB815B6 2SC2712	 C B E		
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	 anode cathode				

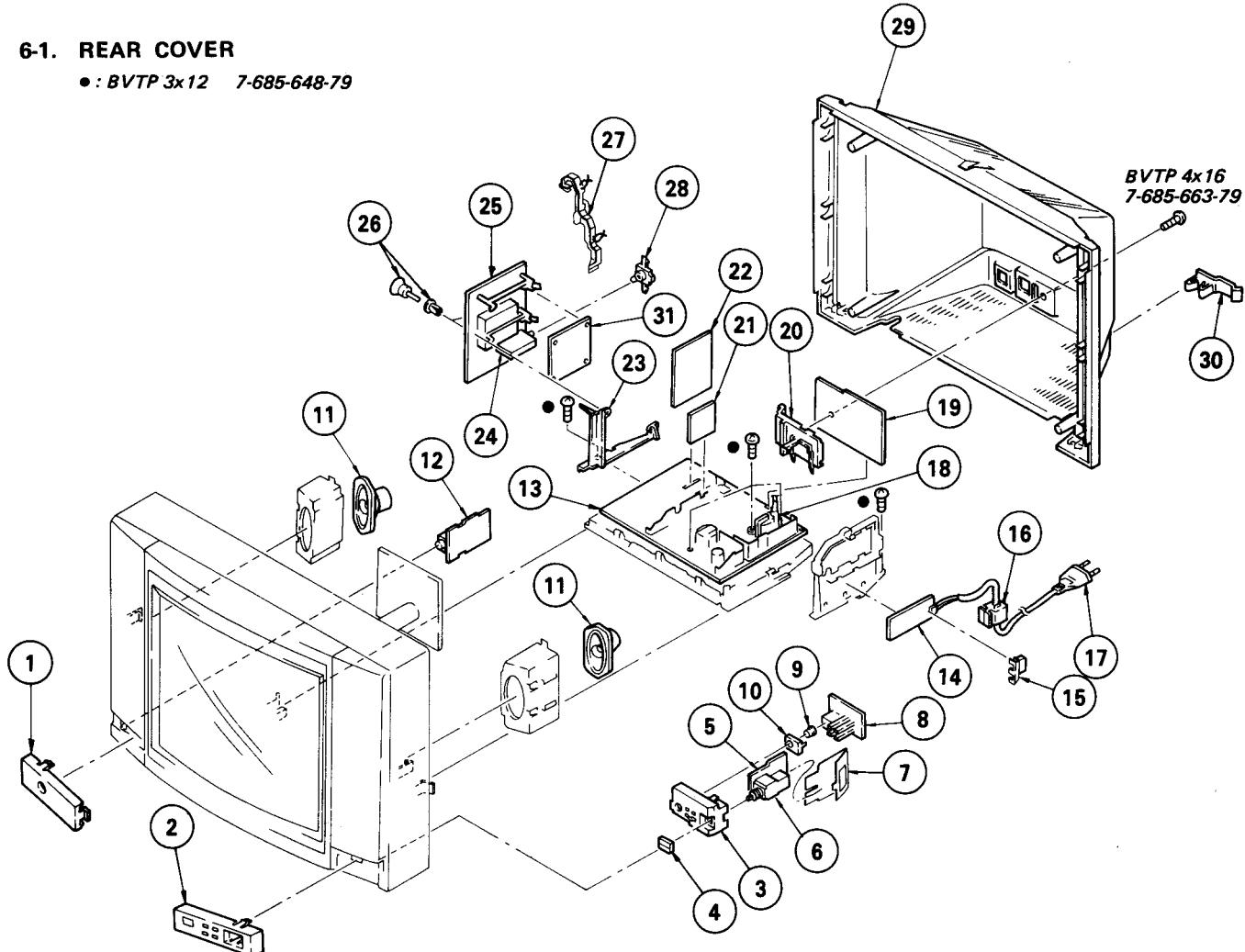
## SECTION 6 EXPLODED VIEWS

**NOTE:**  
 • Items with no part number and no description are not stocked because they are seldom required for routine service.  
 • The construction parts of an assembled part are indicated with a callout number in the remark column.  
 • Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **Δ** are critical for safety.  
 Replace only with part number specified.

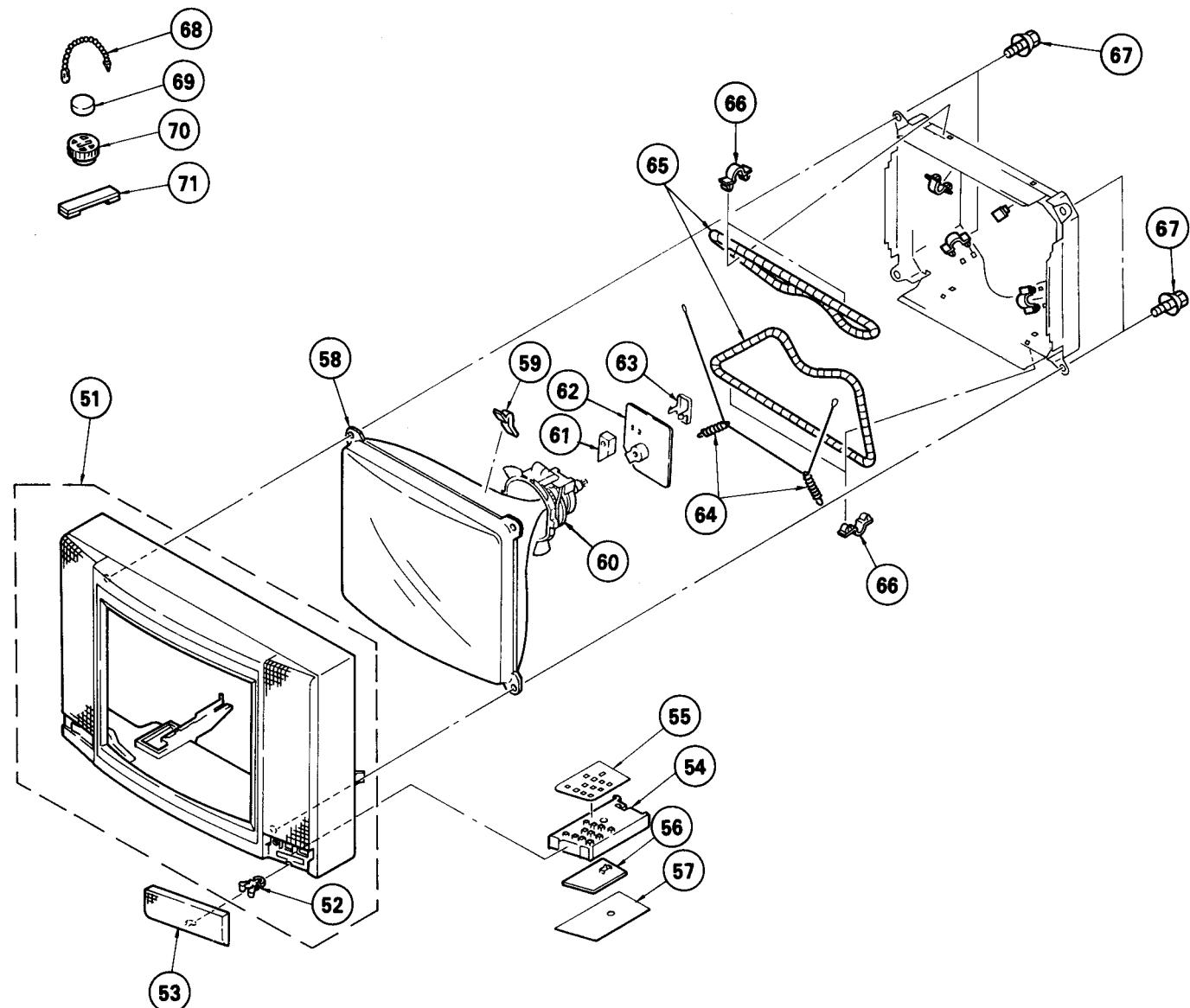
### 6-1. REAR COVER

• : BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-389-112-01	PLATE (B) (BLACK)		15	*4-386-620-01	COVER, POWER	
	4-389-112-11	PLATE (B) (GRAY)		16	Δ 4-389-201-01	HOLDER, AC CORD	
2	X-4389-101-1	PLATE (A) ASSY (BLACK)		17	Δ 1-559-346-11	CORD, POWER (WITH CONNECTOR) (AEP ONLY)	
	X-4389-101-2	PLATE (A) ASSY (GRAY)			Δ 1-559-912-12	CORD, POWER (WITH CONNECTOR) (AUS ONLY)	
3	*4-389-124-01	PANEL, POWER SWITCH		18	Δ 1-439-416-11	TRANSFORMER ASSY, FLYBACK	
4	4-389-106-01	BUTTON, POWER (BLACK)		19	*A-1371-335-A	J1 BOARD, COMPLETE	
	4-389-106-11	BUTTON, POWER (GRAY)		20	*4-386-624-11	BRACKET, J	
5	*1-625-200-11	F2 BOARD		21	*1-625-206-11	KS BOARD	
6	Δ 1-571-410-11	SWITCH, PUSH (AC POWER) (1 KEY)		22	*A-1135-498-A	B BOARD, COMPLETE	
7	*4-387-804-01	INSULATOR		23	*4-386-629-12	BRACKET, A	
8	*1-625-204-11	H8 BOARD		24	Δ 1-465-053-11	TUNER, ET (UV-615S)	
9	*4-374-987-01	GUIDE, LIGHT		25	*A-1296-476-A	A BOARD, COMPLETE	
10	*4-388-955-01	BRACKET (B), LIGHT GUIDE		26	4-386-618-01	RIVET, T TYPE	
11	1-503-642-41	SPEAKER		27	*4-386-628-11	SUPPORTER, PC BOARD	
12	*1-625-205-11	J2 BOARD		28	*4-386-617-01	HOLDER, TERMINAL	
13	*A-1345-720-A	D BOARD, COMPLETE		29	4-389-156-01	COVER, REAR	
14	*1-625-199-11	F1 BOARD		30	4-329-127-00	CLAMP, CORD	
				31	*A-1347-030-A	V BOARD, COMPLETE	

## 6-2. PICTURE TUBE



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4389-114-1	CABINET ASSY (BLACK)	52	61	*4-379-167-01	COVER (MAIN), CV	
	X-4389-114-2	CABINET ASSY (GRAY)	52	62	*A-1330-849-A	C BOARD, COMPLETE	
52	4-374-714-01	CATCH, PUSH		63	*4-379-160-01	COVER (REAR LID), CV	
53	X-4389-102-1	COVER ASSY, ORNAMENTAL (BLACK)		64	4-303-774-XX	SPRING	
	X-4389-102-2	COVER ASSY, ORNAMENTAL (GRAY)		65	▲1-426-372-11	COIL, DEMAGNETIZATION	
54	4-389-123-01	PANEL, CONTROL		66	*4-385-916-01	HOLDER (D)	
55	4-389-109-11	LABEL, CONTROL		67	4-373-263-11	SCREW (M), PT	
56	*1-625-203-11	H7 BOARD		68	4-308-870-00	CLIP, LEAD WIRE	
57	*4-389-103-01	COVER, H7		69	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
58	▲8-733-224-05	PICTURE TUBE (A59JWC60X) (AEP ONLY)		70	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
	▲8-733-225-05	PICTURE TUBE (A59JWB10X) (AUS ONLY)		71	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
59	3-703-961-01	SPACER, DY					
60	▲1-451-311-21	DEFLECTION YOKE (SY-178)					

The components identified by shading and mark ▲ are critical for safety.  
Replace only with part number specified.

## **SECTION 7**

# **ELECTRICAL PARTS LIST**

B

**NOTE:**

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS  
 • MF :  $\mu$ F, PF :  $\mu\mu$ F      • MMH : mH, UH :  $\mu$ H

Note: In this parts list, the mounting diagram is for a different product. Therefore, an excess of parts is listed.

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<CUIL>											
L301	1-410-868-21	INDUCTOR	4.7UH	R329	1-249-397-11	CARBON	22 5% 1/4W				
L302	1-410-868-21	INDUCTOR	4.7UH	R330	1-249-397-11	CARBON	22 5% 1/4W				
L303	1-408-408-00	INDUCTOR	8.2UH	R331	1-249-418-11	CARBON	1.2K 5% 1/4W				
L304	1-408-409-00	INDUCTOR	10UH	R332	1-249-401-11	CARBON	47 5% 1/4W				
L331	1-408-408-00	INDUCTOR	8.2UH	R333	1-249-412-11	CARBON	390 5% 1/4W				
L332	1-404-539-11	COIL		R334	1-249-408-11	CARBON	180 5% 1/4W				
L333	1-404-554-11	COIL		R335	1-249-415-11	CARBON	680 5% 1/4W				
L334	1-404-554-11	COIL		R336	1-249-418-11	CARBON	1.2K 5% 1/4W				
L335	1-404-554-11	COIL		R337	1-247-848-11	CARBON	5.1K 5% 1/4W				
L336	1-408-417-00	INDUCTOR	47UH	R338	1-249-429-11	CARBON	10K 5% 1/4W				
L338	1-408-416-00	INDUCTOR	39UH	R339	1-249-409-11	CARBON	220 5% 1/4W				
L339	1-410-868-21	INDUCTOR	4.7UH	R340	1-249-437-11	CARBON	47K 5% 1/4W				
<TRANSISTOR>											
Q302	8-729-178-54	TRANSISTOR	2SC2785	R341	1-249-410-11	CARBON	270 5% 1/4W				
Q303	8-729-178-54	TRANSISTOR	2SC2785	R342	1-249-429-11	CARBON	10K 5% 1/4W				
Q305	8-729-900-36	TRANSISTOR	DTC124ES	R343	1-249-429-11	CARBON	10K 5% 1/4W				
Q306	8-729-178-54	TRANSISTOR	2SC2785	R344	1-249-437-11	CARBON	47K 5% 1/4W				
Q311	8-729-178-54	TRANSISTOR	2SC2785	R346	1-249-419-11	CARBON	1.5K 5% 1/4W				
Q312	8-729-178-54	TRANSISTOR	2SC2785	R347	1-249-429-11	CARBON	10K 5% 1/4W				
Q313	8-729-178-54	TRANSISTOR	2SC2785	R348	1-249-437-11	CARBON	47K 5% 1/4W				
Q316	8-729-178-54	TRANSISTOR	2SC2785	R349	1-249-415-11	CARBON	680 5% 1/4W				
Q331	8-729-178-54	TRANSISTOR	2SC2785	R350	1-249-415-11	CARBON	680 5% 1/4W				
Q332	8-729-900-36	TRANSISTOR	DTC124ES	R351	1-249-409-11	CARBON	220 5% 1/4W				
Q333	8-729-900-36	TRANSISTOR	DTC124ES	R352	1-247-891-00	CARBON	330K 5% 1/4W				
Q334	8-729-178-54	TRANSISTOR	2SC2785	R353	1-247-891-00	CARBON	330K 5% 1/4W				
Q335	8-729-178-54	TRANSISTOR	2SC2785	R354	1-249-409-11	CARBON	220 5% 1/4W				
Q336	8-729-178-54	TRANSISTOR	2SC2785	R355	1-249-423-11	CARBON	3.3K 5% 1/4W				
Q381	8-729-900-36	TRANSISTOR	DTC124ES	R356	1-249-427-11	CARBON	6.8K 5% 1/4W				
Q382	8-729-178-54	TRANSISTOR	2SC2785	R358	1-249-409-11	CARBON	220 5% 1/4W				
Q1306	8-729-117-54	TRANSISTOR	2SA1175	R359	1-249-437-11	CARBON	47K 5% 1/4W				
<RESISTOR>											
R301	1-249-409-11	CARBON	220 5% 1/4W	R360	1-249-437-11	CARBON	47K 5% 1/4W				
R302	1-249-409-11	CARBON	220 5% 1/4W	R361	1-249-418-11	CARBON	1.2K 5% 1/4W				
R303	1-249-409-11	CARBON	220 5% 1/4W	R363	1-249-410-11	CARBON	270 5% 1/4W				
R304	1-249-409-11	CARBON	220 5% 1/4W	R364	1-249-417-11	CARBON	1K 5% 1/4W				
R305	1-249-421-11	CARBON	2.2K 5% 1/4W	R365	1-249-417-11	CARBON	1K 5% 1/4W				
R307	1-249-441-11	CARBON	100K 5% 1/4W	R367	1-249-409-11	CARBON	220 5% 1/4W				
R308	1-249-414-11	CARBON	560 5% 1/4W	R368	1-249-417-11	CARBON	1K 5% 1/4W				
R309	1-249-405-11	CARBON	100 5% 1/4W	R369	1-249-417-11	CARBON	1K 5% 1/4W				
R310	1-249-405-11	CARBON	100 5% 1/4W	R370	1-249-418-11	CARBON	1.2K 5% 1/4W				
R311	1-249-405-11	CARBON	100 5% 1/4W	R371	1-249-417-11	CARBON	1K 5% 1/4W				
R312	1-249-409-11	CARBON	220 5% 1/4W	R376	1-249-429-11	CARBON	10K 5% 1/4W				
R313	1-249-433-11	CARBON	22K 5% 1/4W	R378	1-249-441-11	CARBON	100K 5% 1/4W				
R314	1-249-413-11	CARBON	470 5% 1/4W	R379	1-249-441-11	CARBON	100K 5% 1/4W				
R315	1-249-407-11	CARBON	150 5% 1/4W	R380	1-249-426-11	CARBON	5.6K 5% 1/4W				
R316	1-249-407-11	CARBON	150 5% 1/4W	R381	1-249-439-11	CARBON	68K 5% 1/4W				
R317	1-249-407-11	CARBON	150 5% 1/4W	R382	1-247-885-00	CARBON	180K 5% 1/4W				
R318	1-249-429-11	CARBON	10K 5% 1/4W	R383	1-247-893-11	CARBON	390K 5% 1/4W				
R319	1-249-409-11	CARBON	220 5% 1/4W	R385	1-249-435-11	CARBON	33K 5% 1/4W				
R320	1-249-417-11	CARBON	1K 5% 1/4W	R389	1-247-883-00	CARBON	150K 5% 1/4W				
R321	1-249-421-11	CARBON	2.2K 5% 1/4W	R391	1-249-404-00	CARBON	82 5% 1/4W				
R322	1-249-420-11	CARBON	1.8K 5% 1/4W	R392	1-249-402-11	CARBON	56 5% 1/4W				
R323	1-249-421-11	CARBON	2.2K 5% 1/4W	R393	1-249-402-11	CARBON	56 5% 1/4W				
R324	1-249-426-11	CARBON	5.6K 5% 1/4W	R394	1-249-402-11	CARBON	56 5% 1/4W				
R325	1-249-429-11	CARBON	10K 5% 1/4W	R398	1-249-433-11	CARBON	22K 5% 1/4W				
R326	1-249-419-11	CARBON	1.5K 5% 1/4W	R1324	1-249-419-11	CARBON	1.5K 5% 1/4W				
<VARIABLE RESISTOR>											
R327	1-249-427-11	CARBON	6.8K 5% 1/4W	RV331	1-230-504-11	RES, ADJ, CARBON	220				
R328	1-249-397-11	CARBON	22 5% 1/4W	<TRANSFORMER>							
R331	1-404-584-11	COIL		T331	1-404-584-11	COIL					

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

**B F1 F2 A**

REF. NO. PART NO. DESCRIPTION

REMARK REF. NO. PART NO. DESCRIPTION

REMARK

<CRYSTAL>

X331 1-567-307-11 OSCILLATOR, CRYSTAL  
X332 1-567-131-00 OSCILLATOR, CRYSTAL

\*A-1296-476-A A BOARD, COMPLETE

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$\Delta$  1-465-053-11 TUNER, ET (UV-615S)  
\*4-380-698-01 CASE (MAIN), SHIELD, A1  
\*4-380-699-01 CASE (UPPER LID), SHIELD, A1  
\*4-382-701-01 CASE (BOTTOM LID), SHIELD, A2

\*1-625-199-11 F1 BOARD  
\*\*\*\*\*

<CAPACITOR>

C1601 $\Delta$  1-136-518-11 FILM 0.33MF 20% 300V  
C1602 $\Delta$  1-136-519-11 FILM 0.47MF 20% 300V  
C1603 $\Delta$  1-162-578-51 CERAMIC 0.0047MF 20% 400V  
C1604 $\Delta$  1-162-578-51 CERAMIC 0.0047MF 20% 400V  
C1605 $\Delta$  1-162-578-51 CERAMIC 0.0047MF 20% 400V  
C1606 $\Delta$  1-162-578-51 CERAMIC 0.0047MF 20% 400V  
C1607 $\Delta$  1-161-964-61 CERAMIC 0.0047MF 20% 250V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C101	1-126-233-11	ELECT	22MF 20% 50V
C102	1-126-103-11	ELECT	470MF 20% 16V
C103	1-106-220-00	MYLAR	0.1MF 10% 100V
C104	1-106-216-00	MYLAR	0.068MF 10% 100V
C105	1-106-216-00	MYLAR	0.068MF 10% 100V
C106	1-101-004-00	CERAMIC	0.01MF 50V
C107	1-102-963-00	CERAMIC	33PF 20% 50V
C108	1-124-963-11	ELECT	33MF 16V
C109	1-101-003-00	CERAMIC	0.0047MF 50V
C110	1-124-499-11	ELECT	1MF 20% 50V

<CONNECTOR>

CNF61 \*1-566-664-11 PIN, CONNECTOR 4P  
CNF64 \*1-506-348-XX PIN, CONNECTOR 3P  
CNF65 \*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P  
CNF66 \*1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P  
CNF67 \*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)  
CNF162\*1-506-348-XX PIN, CONNECTOR 4P

REF. NO.	PART NO.	DESCRIPTION	REMARK
C111	1-101-003-00	CERAMIC	0.0047MF 50V
C112	1-101-003-00	CERAMIC	0.0047MF 50V
C113	1-101-003-00	CERAMIC	0.0047MF 50V
C114	1-124-963-11	ELECT	33MF 20% 16V
C118	1-101-880-00	CERAMIC	47PF 5% 50V
C119	1-126-101-11	ELECT	100MF 20% 16V
C120	1-124-925-11	ELECT	2.2MF 20% 50V
C121	1-101-003-00	CERAMIC	0.0047MF 50V
C122	1-101-003-00	CERAMIC	0.0047MF 50V
C123	1-101-003-00	CERAMIC	0.0047MF 50V

<FUSE>

F1601 $\Delta$  1-532-350-11 FUSE, TIME-LAG 4A/250V  
1-533-087-00 HOLDER, FUSE; F1601

REF. NO.	PART NO.	DESCRIPTION	REMARK
C124	1-101-888-00	CERAMIC	68PF 5% 50V
C125	1-101-888-00	CERAMIC	68PF 5% 50V
C127	1-101-003-00	CERAMIC	0.0047MF 50V
C128	1-124-963-11	ELECT	33MF 20% 16V
C129	1-101-888-00	CERAMIC	68PF 5% 50V

<FILTER>

LF1601 $\Delta$  1-421-866-12 LFT  
LF1602 $\Delta$  1-421-776-11 LFT  
LF1603 $\Delta$  1-421-592-11 TRANSFORMER, FERRITE

REF. NO.	PART NO.	DESCRIPTION	REMARK
C130	1-101-004-00	CERAMIC	0.01MF 50V
C131	1-101-006-00	CERAMIC	0.047MF 50V
C132	1-124-499-11	ELECT	1MF 20% 50V
C133	1-101-003-00	CERAMIC	0.0047MF 50V
C134	1-124-499-11	ELECT	1MF 20% 50V

<RESISTOR>

R1601 $\Delta$  1-215-192-81 METAL 47K 5% 1/4W  
R1602 $\Delta$  1-244-945-91 CARBON 1M 5% 1/2W  
R1603 $\Delta$  1-217-328-11 WIREWOUND 2.7 10% 7W  
R1604 $\Delta$  1-215-192-81 METAL 47K 5% 1/4W  
R1605 $\Delta$  1-247-289-11 CARBON 8.2M 5% 1W

REF. NO.	PART NO.	DESCRIPTION	REMARK
C135	1-101-004-00	CERAMIC	0.01MF 50V
C136	1-101-006-00	CERAMIC	0.047MF 50V
C137	1-101-880-00	CERAMIC	47PF 5% 50V
C138	1-124-925-11	ELECT	2.2MF 20% 50V
C139	1-123-875-11	ELECT	10MF 20% 50V
C140	1-108-614-11	MYLAR	0.001MF 10% 100V
C141	1-136-298-00	FILM	0.0033MF 2% 100V
C142	1-102-816-00	CERAMIC	120PF 5% 50V
C143	1-101-361-00	CERAMIC	150PF 5% 50V
C144	1-124-477-11	ELECT	47MF 20% 16V

<THERMISTOR>

THP601 $\Delta$  1-808-059-31 THERMISTOR, POSITIVE

REF. NO.	PART NO.	DESCRIPTION	REMARK
C145	1-124-477-11	ELECT	47MF 20% 16V
C146	1-124-477-11	ELECT	47MF 20% 16V
C147	1-124-477-11	ELECT	47MF 20% 16V
C148	1-123-875-11	ELECT	10MF 20% 50V
C149	1-136-153-00	FILM	0.01MF 5% 50V

\*1-625-200-11 F2 BOARD  
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1-506-348-XX PIN, CONNECTOR 4P

REF. NO.	PART NO.	DESCRIPTION	REMARK
C150	1-136-153-00	FILM	0.01MF 5% 50V
C151	1-126-233-11	ELECT	22MF 20% 50V
C152	1-126-233-11	ELECT	22MF 20% 50V
C153	1-136-165-00	FILM	0.1MF 5% 50V
C154	1-136-169-00	FILM	0.22MF 5% 50V

<SWITCH>

S1701 $\Delta$  1-571-410-11 SWITCH, PUSH (AC POWER)(1 KEY)

REF. NO.	PART NO.	DESCRIPTION	REMARK
C155	1-124-963-11	ELECT	33MF 20% 16V
C156	1-136-157-00	FILM	0.022MF 5% 50V
C157	1-136-161-00	FILM	0.047MF 5% 50V
C158	1-124-963-11	ELECT	33MF 20% 16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C159	1-124-477-11	ELECT	47MF	20%	16V	Q107	8-729-117-54	TRANSISTOR 2SA1175
C161	1-124-477-11	ELECT	47MF	20%	16V	Q108	8-729-900-65	TRANSISTOR DTA114ES
C162	1-102-816-00	CERAMIC	120PF	5%	50V	Q109	8-729-900-89	TRANSISTOR DTC114ES
C163	1-124-927-11	ELECT	4.7MF	20%	50V	Q110	8-729-117-54	TRANSISTOR 2SA1175
C164	1-106-367-00	MYLAR	0.01MF	10%	400V	Q111	8-729-900-89	TRANSISTOR DTC114ES
C165	1-136-287-11	FILM	0.0047MF	5%	50V	Q112	8-729-178-54	TRANSISTOR 2SC2785
C167	1-124-499-11	ELECT	1MF	20%	50V	Q113	8-729-178-54	TRANSISTOR 2SC2785
C168	1-106-228-00	MYLAR	0.22MF	10%	100V	Q116	8-729-900-65	TRANSISTOR DTA114ES
C169	1-123-875-11	ELECT	10MF	20%	50V	Q117	8-729-117-54	TRANSISTOR 2SA1175
C174	1-124-499-11	ELECT	1MF	20%	50V			
C177	1-102-119-00	CERAMIC	0.0015MF	10%	50V			<RESISTOR>
C187	1-101-003-00	CERAMIC	0.0047MF		50V	R101	1-249-405-11	CARBON
C188	1-124-963-11	ELECT	33MF	20%	16V	R102	1-249-423-11	CARBON
C189	1-124-963-11	ELECT	33MF	20%	16V	R103	1-249-433-11	CARBON
C190	1-106-220-00	MYLAR	0.1MF	10%	100V	R104	1-249-429-11	CARBON
						R105	1-249-418-11	CARBON
						R106	1-247-891-00	CARBON
CD102	1-404-745-11	DISCRIMINATOR, CERAMIC				R107	1-249-421-11	CARBON
CD103	1-404-746-11	DISCRIMINATOR, CERAMIC				R108	1-249-421-11	CARBON
CF101	1-404-134-00	TRAP, CERAMIC (5.5MHZ)				R109	1-249-423-11	CARBON
CF103	1-527-840-00	FILTER, CERAMIC				R110	1-249-410-11	CARBON
CF104	1-527-839-00	FILTER, CERAMIC				R111	1-249-418-11	CARBON
						R112	1-249-421-11	CARBON
						R114	1-249-413-11	CARBON
						R115	1-249-413-11	CARBON
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P				R116	1-249-419-11	CARBON
						R117	1-249-431-11	CARBON
						R118	1-249-425-11	CARBON
D105	8-719-109-92	DIODE RD6.2ES-B1				R119	1-249-417-11	CARBON
D106	8-719-911-19	DIODE 1SS119				R121	1-249-429-11	CARBON
D108	8-719-000-06	DIODE MC921				R122	1-249-436-11	CARBON
D110	8-719-911-19	DIODE 1SS119				R123	1-249-417-11	CARBON
D111	8-719-109-68	DIODE RD3.6ES-B1				R124	1-249-423-11	CARBON
						R125	1-249-429-11	CARBON
						R126	1-249-436-11	CARBON
						R127	1-249-432-11	CARBON
						R128	1-249-432-11	CARBON
IC101	8-759-909-08	IC TDA3541				R129	1-249-429-11	CARBON
IC102	8-759-973-86	IC TDA2558				R130	1-249-429-11	CARBON
IC103	8-759-013-18	IC TDA6600				R132	1-249-414-11	CARBON
IC104	8-759-946-99	IC TDA2595-V7				R133	1-249-425-11	CARBON
						R134	1-249-414-11	CARBON
						R135	1-249-419-11	CARBON
L101	1-408-226-00	INDUCTOR	82UH			R136	1-249-414-11	CARBON
L102	1-410-116-11	INDUCTOR	0.56MMH			R137	1-249-414-11	CARBON
L103	1-408-406-00	INDUCTOR	5.6UH			R138	1-249-419-11	CARBON
L104	1-408-411-00	INDUCTOR	15UH			R139	1-249-431-11	CARBON
L106	1-408-415-00	INDUCTOR	33UH			R140	1-249-441-11	CARBON
						R141	1-249-425-11	CARBON
L107	1-408-406-00	INDUCTOR	5.6UH			R142	1-249-441-11	CARBON
L108	1-408-412-00	INDUCTOR	18UH			R143	1-249-441-11	CARBON
L109	1-408-412-00	INDUCTOR	18UH			R144	1-249-422-11	CARBON
L110	1-410-064-11	INDUCTOR	2.7MMH			R146	1-249-424-11	CARBON
L111	1-408-421-00	INDUCTOR	100UH			R148	1-249-413-11	CARBON
L113	1-408-399-00	INDUCTOR	1.5UH			R150	1-249-423-11	CARBON
						R151	1-249-423-11	CARBON
						R152	1-249-431-11	CARBON
						R153	1-249-416-11	CARBON
Q101	8-729-900-61	TRANSISTOR DTA114ES				R154	1-249-441-11	CARBON
Q102	8-729-900-61	TRANSISTOR DTA114ES				R155	1-249-430-11	CARBON
Q103	8-729-900-61	TRANSISTOR DTA114ES				R156	1-247-881-00	CARBON
Q104	8-729-900-61	TRANSISTOR DTA114ES				R163	1-249-424-11	CARBON
Q105	8-729-178-54	TRANSISTOR 2SC2785				R165	1-249-423-11	CARBON
Q106	8-729-178-54	TRANSISTOR 2SC2785						

**A** **C**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R166	1-249-437-11	CARBON	47K 5%	1/4W			
R174	1-249-429-11	CARBON	10K 5%	1/4W			
R175	1-249-429-11	CARBON	10K 5%	1/4W			
R188	1-249-419-11	CARBON	1.5K 5%	1/4W			
R189	1-249-419-11	CARBON	1.5K 5%	1/4W			
<VARIABLE RESISTOR>							
RV101	1-237-753-11	RES, ADJ, CARBON	47K				
RV102	1-237-751-11	RES, ADJ, CARBON	10K				
RV103	1-237-753-11	RES, ADJ, CARBON	47K				
<TRANSFORMER>							
T101	1-404-493-00	COIL					
T102	1-404-493-00	COIL					
T103	1-404-493-00	COIL					
*****							
*A-1330-849-A		C BOARD, COMPLETE					
*****							
*4-379-160-01 COVER (REAR LID), CV							
*4-379-167-01 COVER (MAIN), CV							
*4-386-664-01 SPRING							
<CAPACITOR>							
C703	1-102-980-00	CERAMIC	270PF	5%	50V		
C704	1-102-116-00	CERAMIC	680PF	10%	50V		
C705	1-102-978-00	CERAMIC	220PF	5%	50V		
C706	1-102-116-00	CERAMIC	680PF	10%	50V		
C707	1-162-116-00	CERAMIC	680PF	10%	2KV		
C708	1-162-114-00	CERAMIC	0.0047MF		2KV		
C709	1-102-116-00	CERAMIC	680PF	10%	50V		
C710	1-123-947-00	ELECT	10MF	20%	250V		
C711	1-101-880-00	CERAMIC	47PF	5%	50V		
C712	1-102-980-00	CERAMIC	270PF	5%	50V		
C714	1-124-360-00	ELECT	1000MF	20%	16V		
C716	1-162-622-11	CERAMIC	330PF	10%	400V		
C717	1-102-114-00	CERAMIC	470PF	10%	50V		
C718	1-102-114-00	CERAMIC	470PF	10%	50V		
C719	1-102-114-00	CERAMIC	470PF	10%	50V		
<CONNECTOR>							
CNC71	*1-506-371-00	PIN, CONNECTOR	2P				
CNC72	*1-564-883-11	PLUG, CONNECTOR	6P				
CNC81	*1-560-123-00	PLUG, CONNECTOR	(2.5MM PITCH)				
CNC82	*1-508-765-00	PIN, CONNECTOR	(5MM PITCH)	3P			
<DIODE>							
D701	8-719-110-14	DIODE	RD9.1ES-B3				
D702	8-719-911-19	DIODE	ISS119				
D703	8-719-911-19	DIODE	ISS119				
D704	8-719-911-19	DIODE	ISS119				
D705	8-719-911-19	DIODE	ISS119				
D706	8-719-911-19	DIODE	ISS119				
D707	8-719-911-19	DIODE	ISS119				
D708	8-719-911-19	DIODE	ISS119				
D709	8-719-911-19	DIODE	ISS119				
D710	8-719-911-19	DIODE	ISS119				
<VARIABLE RESISTOR>							
RV701	1-230-641-21	RES, ADJ, METAL GLAZE	2.2M				
RV702	1-230-619-11	RES, ADJ, METAL GLAZE	110M				
RV703	1-237-749-11	RES, ADJ, CARBON	2200				
RV704	1-237-749-11	RES, ADJ, CARBON	2200				

D

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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*****				C516	1-108-614-11	MYLAR	0.001MF 10% 100V
*A-1345-720-A	D BOARD, COMPLETE			C517	1-124-252-00	ELECT	0.33MF 20% 50V
	*****			C518	1-124-902-00	ELECT	0.47MF 20% 50V
*4-341-751-01	EYELET			C519	1-136-173-00	FILM	0.47MF 5% 50V
*4-341-752-01	EYELET			C520	1-102-121-00	CERAMIC	0.0022MF 10% 50V
<CAPACITOR>				C521	1-106-220-00	MYLAR	0.1MF 10% 100V
C001	1-102-973-00	CERAMIC	100PF 5% 50V	C522	1-124-122-11	ELECT	100MF 20% 50V
C003	1-106-220-00	MYLAR	0.1MF 10% 100V	C523	1-108-614-11	MYLAR	0.001MF 10% 100V
C004	1-123-875-11	ELECT	10MF 20% 50V	C524	1-108-798-11	MYLAR	0.0033MF 5% 50V
C005	1-102-074-00	CERAMIC	0.001MF 10% 50V	C525	1-102-973-00	CERAMIC	100PF 5% 50V
C007	1-106-383-00	MYLAR	0.047MF 10% 100V	C526	1-102-947-00	CERAMIC	10PF 0.5PF 50V
C008	1-101-880-00	CERAMIC	47PF 5% 50V	C527	1-106-220-00	MYLAR	0.1MF 10% 100V
C009	1-101-884-00	CERAMIC	56PF 5% 50V	C528	1-124-190-00	ELECT	680MF 10% 25V
C010	1-126-101-11	ELECT	100MF 20% 16V	C529	1-124-122-11	ELECT	100MF 20% 50V
C011	1-101-004-00	CERAMIC	0.01MF 50V	C530	1-106-216-00	MYLAR	0.068MF 10% 100V
C012	1-126-101-11	ELECT	100MF 20% 16V	C531	1-124-120-11	ELECT	220MF 20% 16V
C013	1-101-004-00	CERAMIC	0.01MF 50V	C532	1-131-365-00	TANTALUM	10MF 10% 16V
C014	1-124-463-00	ELECT	0.1MF 20% 50V	C533	1-124-499-11	ELECT	1MF 20% 50V
C015	1-126-101-11	ELECT	100MF 20% 16V	C534	1-108-614-11	MYLAR	0.001MF 10% 100V
C016	1-101-004-00	CERAMIC	0.01MF 50V	C535	1-102-820-00	CERAMIC	330PF 5% 50V
C017	1-123-875-11	ELECT	10MF 20% 50V	C536	1-123-875-11	ELECT	10MF 20% 50V
C018	1-102-980-00	CERAMIC	270PF 5% 50V	C537	1-124-477-11	ELECT	47MF 20% 16V
C019	1-106-383-00	MYLAR	0.047MF 10% 100V	C538	1-102-820-00	CERAMIC	100MF 20% 50V
C020	1-102-973-00	CERAMIC	100PF 5% 50V	C539	1-102-820-00	CERAMIC	330PF 5% 50V
C021	1-102-973-00	CERAMIC	100PF 5% 50V	C601	1-162-599-12	CERAMIC	0.0047MF 250V
C022	1-124-477-11	ELECT	47MF 20% 16V	C602	1-162-599-12	CERAMIC	0.0047MF 250V
C023	1-124-499-11	ELECT	1MF 20% 50V	C603	1-162-599-12	CERAMIC	0.0047MF 250V
C024	1-124-499-11	ELECT	1MF 20% 50V	C604	1-125-318-00	ELECT(BLOCK)	220MF 20% 400V
C025	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C605	1-124-122-11	ELECT	100MF 20% 50V
C026	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C606	1-106-220-00	MYLAR	0.1MF 10% 100V
C027	1-106-220-00	MYLAR	0.1MF 10% 100V	C607	1-130-019-00	FILM	0.0012MF 5% 50V
C028	1-101-361-00	CERAMIC	150PF 5% 50V	C608	1-123-875-11	ELECT	10MF 20% 50V
C029	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C609	1-124-122-11	ELECT	100MF 20% 50V
C251	1-124-927-11	ELECT	4.7MF 20% 50V	C610	1-162-115-00	CERAMIC	330PF 10% 2KV
C252	1-124-927-11	ELECT	4.7MF 20% 50V	C611	1-136-539-11	FILM	0.0022MF 3% 2KV
C253	1-124-122-11	ELECT	100MF 20% 50V	C612	1-124-556-11	ELECT	2200MF 20% 16V
C254	1-124-927-11	ELECT	4.7MF 20% 50V	C613	1-102-030-00	CERAMIC	330PF 10% 500V
C255	1-124-927-11	ELECT	4.7MF 20% 50V	C614	1-124-927-11	ELECT	1000MF 20% 25V
C256	1-106-220-00	MYLAR	0.1MF 10% 100V	C615	1-102-030-00	CERAMIC	330PF 10% 500V
C257	1-101-004-00	CERAMIC	0.01MF 50V	C616	1-124-637-11	ELECT	1000MF 20% 50V
C258	1-106-220-00	MYLAR	0.1MF 10% 100V	C617	1-124-556-11	ELECT	2200MF 20% 16V
C260	1-106-220-00	MYLAR	0.1MF 10% 100V	C618	1-124-347-00	ELECT	100MF 20% 160V
C265	1-102-074-00	CERAMIC	0.001MF 10% 50V	C619	1-102-074-00	CERAMIC	2200MF 20% 16V
C266	1-102-074-00	CERAMIC	0.001MF 10% 50V	C620	1-124-347-00	ELECT	100MF 20% 16V
C401	1-124-477-11	ELECT	47MF 20% 16V	C621	1-124-556-11	ELECT	2200MF 20% 16V
C403	1-124-477-11	ELECT	47MF 20% 16V	C622	1-124-910-11	ELECT	47MF 20% 50V
C501	1-124-927-11	ELECT	4.7MF 20% 50V	C623	1-124-122-11	ELECT	100MF 20% 50V
C502	1-124-927-11	ELECT	4.7MF 20% 50V	C624	1-124-360-00	ELECT	1000MF 20% 16V
C503	1-106-371-00	MYLAR	0.015MF 10% 400V	C625	1-123-875-11	ELECT	10MF 20% 50V
C504	1-101-361-00	CERAMIC	150PF 5% 50V	C626	1-123-875-11	ELECT	0.001MF 10% 50V
C505	1-108-794-11	MYLAR	0.0015MF 5% 50V	C627	1-102-074-00	CERAMIC	10MF 20% 50V
C506	1-106-375-12	MYLAR	0.022MF 10% 250V	C628	1-102-074-00	CERAMIC	0.001MF 10% 50V
C507	1-130-783-00	MYLAR	0.33MF 10% 100V	C629	1-124-927-11	ELECT	4.7MF 20% 50V
C508	1-106-375-12	MYLAR	0.022MF 10% 250V	C630	1-124-927-11	ELECT	3.3MF 20% 50V
C509	1-106-220-00	MYLAR	0.1MF 10% 100V	C631	1-124-382-00	ELECT	1000MF 20% 35V
C510	1-161-959-00	CERAMIC	22PF 10% 500V	C632	1-124-382-00	ELECT	330PF 10% 500V
C511	1-108-620-11	MYLAR	0.0033MF 10% 100V	C633	1-124-634-11	ELECT	22MF 20% 250V
C512	1-106-220-00	MYLAR	0.1MF 10% 100V	C634	1-106-220-00	MYLAR	0.1MF 10% 100V
C513	1-108-614-11	MYLAR	0.001MF 10% 100V	C635	1-106-395-00	MYLAR	0.15MF 10% 200V
C514	1-106-228-00	MYLAR	0.22MF 10% 100V	C636	1-124-494-00	ELECT	33MF 160V
C515	1-124-499-11	ELECT	1MF 20% 50V	C637	1-136-113-00	FILM	2MF 5% 200V
				C638	1-124-634-11	ELECT	1MF 20% 250V
				C639	1-102-212-00	CERAMIC	820PF 10% 500V
				C640	1-161-731-11	CERAMIC	0.001MF 10% 2KV
				C641	1-136-111-00	FILM	1MF 5% 200V

**D**

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
C817	1-136-565-11	FILM	0.015MF 3%	1.4KV	D602	8-719-924-06	DIODE ERC24-06S				
C818	1-129-721-00	FILM	0.039MF 10%	630V	D603	8-719-936-83	DIODE GP08DPKG23				
CF819 <b>Δ</b>	1-161-731-11	CERAMIC	0.0001MF 10%	2KV	D604	8-719-936-83	DIODE GP08DPKG23				
C820	1-106-218-00	MYLAR	0.0082MF 10%	400V	D605	8-719-936-83	DIODE GP08DPKG23				
CF821 <b>Δ</b>	1-162-116-51	CERAMIC	680PF 10%	2KV	D606	8-719-924-06	DIODE ERC24-06S				
C822	1-102-114-00	CERAMIC	470PF 10%	50V	D607	8-719-924-06	DIODE ERC24-06S				
C823	1-106-359-00	MYLAR	0.0047MF 10%	400V	D608	8-719-925-06	DIODE ERC25-06S				
C824	1-102-212-00	CERAMIC	820PF 10%	500V	D610	8-719-300-59	DIODE CTU-12S				
C825	1-106-375-12	MYLAR	0.022MF 10%	250V	D611	8-719-928-08	DIODE ERD28-06S				
C826	1-123-875-11	ELECT	10MF 20%	50V	D612	8-719-300-59	DIODE CTU-12S				
<FILTER>											
CF001	1-567-686-11	OSCILLATOR, CERAMIC		D613	8-719-924-06	DIODE ERC24-06S					
CF501	1-567-888-11	OSCILLATOR, CERAMIC		D614	8-719-924-06	DIODE ERC24-06S					
<CONNECTOR>											
CND801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D615	8-719-109-90	DIODE RD5.6ES-B3					
CND01	*1-564-884-11	PLUG, CONNECTOR 7P		D616	8-719-109-93	DIODE RD6.2ES-B2					
CND02	*1-564-886-11	PLUG, CONNECTOR 9P		D618	8-719-109-89	DIODE RD5.6ES-B2					
CND11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P		D620	8-719-000-12	DIODE MC931					
CND12	*1-564-884-11	PLUG, CONNECTOR 7P		D622	8-719-911-19	DIODE ISS119					
CND21	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P		D623	8-719-911-19	DIODE ISS119					
CND23	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		D624	8-719-911-19	DIODE ISS119					
CND31	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P		D627	8-719-911-19	DIODE ISS119					
CND41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D630	8-719-110-39	DIODE RD15ES-B1					
CND45	*1-564-882-11	PLUG, CONNECTOR 5P		D632	8-719-110-16	DIODE RD10ES-B1					
CND51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D633	8-719-911-19	DIODE ISS119					
CND64	*1-506-348-XX	PIN, CONNECTOR 3P		D801	8-719-924-06	DIODE ERC24-06S					
CND82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D802	8-719-924-06	DIODE ERC24-06S					
CND83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D803	8-719-300-65	DIODE ES1F					
CND84	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		D804	8-719-936-83	DIODE GP08DPKG23					
CND51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D805	8-719-936-83	DIODE GP08DPKG23					
CND64	*1-506-348-XX	PIN, CONNECTOR 3P		D806	8-719-945-80	DIODE ERC06-15S					
CND82	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		D807	8-719-945-80	DIODE ERC06-15S					
CND83	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D808	8-719-900-26	DIODE ERD29-08J					
CND84	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		D809	8-719-924-06	DIODE ERC24-06S					
CND91	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		<IC>							
CND92	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		I001	8-759-630-06	IC M50436-614SP					
CND94	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		I002	8-759-979-57	IC MB88503H-1022G					
<DIODE>				I003	8-759-603-41	IC M58655P					
D001	8-719-911-19	DIODE ISS119		I004	8-759-157-40	IC UPC574J					
D002	8-719-911-19	DIODE ISS119		I0251	8-759-803-31	IC LA4280					
D003	8-719-911-19	DIODE ISS119		*4-368-683-01 SPRING; IC251							
D004	8-719-911-19	DIODE ISS119		IC401	8-752-006-10	IC CX20061					
D005	8-719-109-71	DIODE RD3.9ES-B1		IC501	8-759-970-73	IC TEA2028B					
D007	8-719-109-89	DIODE RD5.6ES-B2		IC502	8-759-944-57	IC TDA8170					
D008	8-719-110-85	DIODE RD36ES-B4		*4-381-724-01 HOLDER, IC; IC502							
D009	8-719-109-89	DIODE RD5.6ES-B2		IC601	8-759-946-23	IC TEA2164					
D011	8-719-911-19	DIODE ISS119		*4-386-642-01 HEAT SINK, IC; IC601							
D012	8-719-911-19	DIODE ISS119		IC608	8-759-700-06	IC UPC7812H					
D254	8-719-110-14	DIODE RD9.1ES-B3		<COIL>							
D255	8-719-000-12	DIODE MC931		L001	1-408-414-00	INDUCTOR 27UH					
D256	8-719-000-12	DIODE MC931		L501	1-408-225-00	INDUCTOR 3.3UH					
D501	8-719-911-19	DIODE ISS119		L601	*1-420-872-00	COIL, AIR CORE					
D504	8-719-936-83	DIODE GP08DPKG23		L602	1-410-396-41	FERRITE BEAD INDUCTOR					
D506	8-719-000-12	DIODE MC931		L603	1-410-396-41	FERRITE BEAD INDUCTOR					
D508	8-719-911-19	DIODE ISS119		L605 <b>Δ</b>	1-459-442-11	COIL (WITH CORE)					
D509	8-719-911-19	DIODE ISS119		L606	1-421-013-00	COIL, (HORIZONTAL CHOKES) 25UH					
D511	8-719-936-83	DIODE GP08DPKG23		L607	1-408-421-00	INDUCTOR 100UH					
D512	8-719-936-83	DIODE GP08DPKG23		L803	1-459-104-00	COIL, DUST CORE					
D513	8-719-109-81	DIODE RD4.7ES-B2		L804	1-408-239-00	INDUCTOR 4.7MMH					
D591	8-719-911-19	DIODE ISS119		L805	1-459-755-11	COIL, HORIZONTAL LINEARITY					
D592	8-719-911-19	DIODE ISS119		L806	1-459-111-00	COIL, DRAM CORE (CDI)					
D593	8-719-911-19	DIODE ISS119		L807	1-407-504-00	INDUCTOR 10MMH					
D601	8-719-946-90	DIODE KBU4JL-6088									

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L809	*1-420-872-00	COIL, AIR CORE		R026	1-249-417-11	CARBON	1K 5% 1/4W
L810	1-421-982-11	PMC		R027	1-249-417-11	CARBON	1K 5% 1/4W
		<IC LINK>		R028	1-249-417-11	CARBON	1K 5% 1/4W
PS601A	1-532-984-91	LINK, IC 2A		R029	1-249-417-11	CARBON	1K 5% 1/4W
PS602A	1-532-675-91	LINK, IC 1.5A		R030	1-249-425-11	CARBON	4.7K 5% 1/4W
		<TRANSISTOR>		R031	1-249-429-11	CARBON	10K 5% 1/4W
Q001	8-729-600-24	TRANSISTOR 2SC403SP-51		R032	1-249-417-11	CARBON	1K 5% 1/4W
Q002	8-729-117-54	TRANSISTOR 2SA1175		R033	1-249-413-11	CARBON	470 5% 1/4W
Q003	8-729-117-54	TRANSISTOR 2SA1175		R034	1-249-413-11	CARBON	470 5% 1/4W
Q004	8-729-117-54	TRANSISTOR 2SA1175		R035	1-249-431-11	CARBON	15K 5% 1/4W
Q252	8-729-900-36	TRANSISTOR DTC124ES		R036	1-249-421-11	CARBON	2.2K 5% 1/4W
Q501	8-729-117-54	TRANSISTOR 2SA1175		R037	1-249-417-11	CARBON	1K 5% 1/4W
Q502	8-729-117-54	TRANSISTOR 2SA1175		R038	1-249-417-11	CARBON	1K 5% 1/4W
Q503	8-729-178-54	TRANSISTOR 2SC2785		R039	1-249-417-11	CARBON	1K 5% 1/4W
Q505	8-729-177-43	TRANSISTOR 2SD774-4		R040	1-249-417-11	CARBON	1K 5% 1/4W
Q506	8-729-103-43	TRANSISTOR 2SB734-4		R041	1-249-417-11	CARBON	1K 5% 1/4W
Q507	8-729-117-54	TRANSISTOR 2SA1175		R042	1-249-417-11	CARBON	1K 5% 1/4W
Q591	8-729-178-54	TRANSISTOR 2SC2785		R043	1-249-417-11	CARBON	1K 5% 1/4W
Q598	8-729-178-54	TRANSISTOR 2SC2785		R044	1-249-429-11	CARBON	10K 5% 1/4W
Q601	8-729-904-32	TRANSISTOR 2SB1185-E		R045	1-249-417-11	CARBON	1K 5% 1/4W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R046	1-249-429-11	CARBON	10K 5% 1/4W
	*4-368-683-01	SPRING; Q602		R048	1-249-417-11	CARBON	1K 5% 1/4W
Q603	8-729-904-32	TRANSISTOR 2SB1185-E		R049	1-249-417-11	CARBON	1K 5% 1/4W
Q604	8-729-378-91	TRANSISTOR 2SD789-4		R050	1-249-433-11	CARBON	22K 5% 1/4W
Q605	8-729-178-54	TRANSISTOR 2SC2785		R051	1-249-429-11	CARBON	10K 5% 1/4W
Q606	8-729-178-54	TRANSISTOR 2SC2785		R052	1-249-439-11	CARBON	68K 5% 1/4W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R053	1-249-437-11	CARBON	47K 5% 1/4W
Q608	*4-368-683-01	SPRING		R054	1-249-417-11	CARBON	1K 5% 1/4W
Q609	8-729-378-91	TRANSISTOR 2SD789-4		R056	1-249-440-11	CARBON	82K 5% 1/4W
Q801	8-729-178-54	TRANSISTOR 2SC2785		R057	1-249-409-11	CARBON	220 5% 1/4W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R058	1-249-409-11	CARBON	220 5% 1/4W
	*4-368-683-01	SPRING; Q804		R059	1-249-435-11	CARBON	33K 5% 1/4W
Q805	8-729-119-80	TRANSISTOR 2SC2688-L		R060	1-249-436-11	CARBON	39K 5% 1/4W
	<RESISTOR>			R061	1-249-417-11	CARBON	1K 5% 1/4W
R001	1-249-417-11	CARBON	1K 5% 1/4W	R062	1-249-411-11	CARBON	330 5% 1/4W
R002	1-249-417-11	CARBON	1K 5% 1/4W	R063	1-249-431-11	CARBON	15K 5% 1/4W
R003	1-249-417-11	CARBON	1K 5% 1/4W	R064	1-249-429-11	CARBON	10K 5% 1/4W
R004	1-249-417-11	CARBON	1K 5% 1/4W	R067	1-249-413-11	CARBON	470 5% 1/4W
R005	1-249-411-11	CARBON	330 5% 1/4W	R068	1-249-421-11	CARBON	2.2K 5% 1/4W
R006	1-249-417-11	CARBON	1K 5% 1/4W	R069	1-249-423-11	CARBON	3.3K 5% 1/4W
R007	1-249-405-11	CARBON	100 5% 1/4W	R070	1-249-417-11	CARBON	1K 5% 1/4W
R008	1-249-417-11	CARBON	1K 5% 1/4W	R071	1-249-417-11	CARBON	1K 5% 1/4W
R009	1-249-417-11	CARBON	1K 5% 1/4W	R072	1-249-417-11	CARBON	1K 5% 1/4W
R010	1-249-413-11	CARBON	470 5% 1/4W	R073	1-249-417-11	CARBON	1K 5% 1/4W
R011	1-249-417-11	CARBON	1K 5% 1/4W	R074	1-249-417-11	CARBON	1K 5% 1/4W
R012	1-249-417-11	CARBON	1K 5% 1/4W	R075	1-249-417-11	CARBON	1K 5% 1/4W
R013	1-249-417-11	CARBON	1K 5% 1/4W	R077	1-249-413-11	CARBON	470 5% 1/4W
R014	1-249-417-11	CARBON	1K 5% 1/4W	R078	1-249-423-11	CARBON	3.3K 5% 1/4W
R016	1-249-429-11	CARBON	10K 5% 1/4W	R079	1-249-435-11	CARBON	33K 5% 1/4W
R017	1-249-417-11	CARBON	1K 5% 1/4W	R080	1-249-429-11	CARBON	10K 5% 1/4W
R018	1-249-417-11	CARBON	1K 5% 1/4W	R081	1-249-441-11	CARBON	100K 5% 1/4W
R019	1-249-433-11	CARBON	22K 5% 1/4W	R083	1-249-429-11	CARBON	10K 5% 1/4W
R020	1-249-433-11	CARBON	22K 5% 1/4W	R084	1-249-413-11	CARBON	470 5% 1/4W
R021	1-249-433-11	CARBON	22K 5% 1/4W	R085	1-249-429-11	CARBON	10K 5% 1/4W
R022	1-249-433-11	CARBON	22K 5% 1/4W	R086	1-249-417-11	CARBON	1K 5% 1/4W
R023	1-249-429-11	CARBON	10K 5% 1/4W	R087	1-249-417-11	CARBON	1K 5% 1/4W
R024	1-249-429-11	CARBON	10K 5% 1/4W	R088	1-249-425-11	CARBON	4.7K 5% 1/4W
R025	1-249-417-11	CARBON	1K 5% 1/4W	R090	1-249-413-11	CARBON	470 5% 1/4W
				R091	1-249-409-11	CARBON	220 5% 1/4W
				R093	1-249-429-11	CARBON	10K 5% 1/4W
				R094	1-249-429-11	CARBON	10K 5% 1/4W
				R095	1-249-409-11	CARBON	220 5% 1/4W
				R096	1-249-409-11	CARBON	220 5% 1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R097	1-249-429-11	CARBON	10K 5% 1/4W	R546	1-249-434-11	CARBON	27K 5% 1/4W
R098	1-249-429-11	CARBON	10K 5% 1/4W	R547	1-249-423-11	CARBON	3.3K 5% 1/4W
R099	1-215-900-11	METAL OXIDE	22K 5% 2W	R548	1-216-349-00	METAL OXIDE	1 5% 1W
R251	1-249-417-11	CARBON	1K 5% 1/4W	R549	1-216-454-11	METAL OXIDE	390 5% 2W
R252	1-249-413-11	CARBON	470 5% 1/4W	R550	1-249-440-11	CARBON	82K 5% 1/4W
R253	1-249-413-11	CARBON	470 5% 1/4W	R551	1-249-749-00	CARBON	2.2M 5% 1/4W
R255	1-249-385-11	CARBON	2.2 5% 1/4W	R553	1-216-869-11	METAL OXIDE	1K 5% 1W
R256	1-249-385-11	CARBON	2.2 5% 1/4W	R554	1-249-411-11	CARBON	330 5% 1/4W
R260	1-249-393-11	CARBON	10 5% 1/4W	R555	1-249-749-00	CARBON	2.2M 5% 1/4W
R261	1-249-429-11	CARBON	10K 5% 1/4W	R556	1-249-405-11	CARBON	100 5% 1/4W
R262	1-249-413-11	CARBON	470 5% 1/4W	R557	1-249-425-11	CARBON	4.7K 5% 1/4W
R263	1-249-421-11	CARBON	2.2K 5% 1/4W	R558	1-247-895-00	CARBON	470K 5% 1/4W
R264	1-249-421-11	CARBON	2.2K 5% 1/4W	R559	1-249-427-11	CARBON	6.8K 5% 1/4W
R265	1-249-425-11	CARBON	4.7K 5% 1/4W	R560	1-249-411-11	CARBON	330 5% 1/4W
R266	1-249-425-11	CARBON	4.7K 5% 1/4W	R591	1-249-427-11	CARBON	6.8K 5% 1/4W
R401	1-249-434-11	CARBON	27K 5% 1/4W	R592	1-249-429-11	CARBON	10K 5% 1/4W
R402	1-249-435-11	CARBON	33K 5% 1/4W	R593	1-249-429-11	CARBON	10K 5% 1/4W
R410	1-249-413-11	CARBON	470 5% 1/4W	R594	1-249-424-11	CARBON	3.9K 5% 1/4W
R411	1-249-413-11	CARBON	470 5% 1/4W	R595	1-249-417-11	CARBON	1K 5% 1/4W
R412	1-249-413-11	CARBON	470 5% 1/4W	R596	1-249-425-11	CARBON	4.7K 5% 1/4W
R500	1-247-897-11	CARBON	560K 5% 1/4W	R597	1-249-425-11	CARBON	4.7K 5% 1/4W
R501	1-249-413-11	CARBON	470 5% 1/4W	R598	1-249-405-11	CARBON	100 5% 1/4W
R502	1-249-409-11	CARBON	220 5% 1/4W	R599	1-249-405-11	CARBON	100 5% 1/4W
R503	1-249-410-11	CARBON	270 5% 1/4W	R602	1-215-901-00	METAL OXIDE	33K 5% 2W
R504	1-215-427-00	METAL	1.8K 1% 1/6W	R603	1-216-359-00	METAL OXIDE	6.8 5% 1W
R505	1-249-431-11	CARBON	15K 5% 1/4W	R604	1-249-414-11	CARBON	560 5% 1/4W
R506	1-249-428-11	CARBON	8.2K 5% 1/4W	R605	1-215-469-00	METAL	100K 1% 1/6W
R507	1-247-891-00	CARBON	330K 5% 1/4W	R606	1-249-426-11	CARBON	5.6K 5% 1/4W
R509	1-249-424-11	CARBON	3.9K 5% 1/4W	R607	1-249-434-11	CARBON	27K 5% 1/4W
R510	1-249-426-11	CARBON	5.6K 5% 1/4W	R608	1-215-901-00	METAL OXIDE	33K 5% 2W
R511	1-249-429-11	CARBON	10K 5% 1/4W	R609	1-249-401-11	CARBON	47 5% 1/4W
R512	1-247-891-00	CARBON	330K 5% 1/4W	R610	1-249-393-11	CARBON	10 5% 1/4W
R513	1-249-429-11	CARBON	10K 5% 1/4W	R611	1-249-385-11	CARBON	2.2 5% 1/4W
R514	1-249-409-11	CARBON	220 5% 1/4W	R612	1-207-905-00	WIREWOUND	0.27 10% 2W
R515	1-249-423-11	CARBON	3.3K 5% 1/4W	R613	1-249-401-11	CARBON	47 5% 1/4W
R516	1-249-408-11	CARBON	180 5% 1/4W	R614	1-205-919-11	WIREWOUND	220 10% 10W
R517	1-249-429-11	CARBON	10K 5% 1/4W	R616	1-249-417-11	CARBON	1K 5% 1/4W
R518	1-249-437-11	CARBON	47K 5% 1/4W	R617	1-249-411-11	CARBON	330 5% 1/4W
R519	1-249-433-11	CARBON	22K 5% 1/4W	R618	1-216-431-11	METAL OXIDE	560 5% 1W
R520	1-249-411-11	CARBON	330 5% 1/4W	R619	1-249-429-11	CARBON	10K 5% 1/4W
R521	1-249-405-11	CARBON	100 5% 1/4W	R620	1-249-433-11	CARBON	22K 5% 1/4W
R522	1-215-469-00	METAL	100K 1% 1/6W	R621	1-249-431-11	CARBON	15K 5% 1/4W
R523	1-249-417-11	CARBON	1K 5% 1/4W	R622	1-249-429-11	CARBON	10K 5% 1/4W
R524	1-249-421-11	CARBON	2.2K 5% 1/4W	R623	1-249-385-11	CARBON	2.2 5% 1/4W
R525	1-249-417-11	CARBON	1K 5% 1/4W	R624	1-249-411-11	CARBON	330 5% 1/4W
R526	1-249-409-11	CARBON	220 5% 1/4W	R625	1-215-865-11	METAL OXIDE	220 5% 1W
R527	1-249-431-11	CARBON	15K 5% 1/4W	R626	1-249-411-11	CARBON	330 5% 1/4W
R528	1-249-408-11	CARBON	180 5% 1/4W	R628	1-249-393-11	CARBON	10 5% 1/4W
R529	1-249-427-11	CARBON	6.8K 5% 1/4W	R629	1-249-411-11	CARBON	330 5% 1/4W
R530	1-249-448-11	CARBON	1.2 5% 1/4W	R630	1-249-437-11	CARBON	47K 5% 1/4W
R531	1-247-881-00	CARBON	120K 5% 1/4W	R633	1-249-405-11	CARBON	100 5% 1/4W
R532	1-249-417-11	CARBON	1K 5% 1/4W	R634	1-216-430-11	METAL OXIDE	390 5% 1W
R534	1-247-901-11	CARBON	820K 5% 1/4W	R635	1-249-429-11	CARBON	10K 5% 1/4W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R636	1-249-429-11	CARBON	10K 5% 1/4W
R536	1-249-749-00	CARBON	2.2M 5% 1/4W	R642	1-216-343-00	METAL OXIDE	0.33 5% 1W
R537	1-249-434-11	CARBON	27K 5% 1/4W	R643	1-217-192-21	WIREWOUND	0.22 10% 2W
R538	1-247-883-00	CARBON	150K 5% 1/4W	R647	1-216-485-11	METAL OXIDE	5.6K 5% 3W
R539	1-247-883-00	CARBON	150K 5% 1/4W	R648	1-216-485-11	METAL OXIDE	5.6K 5% 3W
R540	1-249-399-11	CARBON	33 5% 1/4W	R649	1-249-385-11	CARBON	2.2 5% 1/4W
R541	1-249-438-11	CARBON	56K 5% 1/4W	R650	1-249-417-11	CARBON	1K 5% 1/4W
R542	1-249-425-11	CARBON	4.7K 5% 1/4W	R651	1-249-405-11	CARBON	100 5% 1/4W
R543	1-249-451-11	CARBON	2.2 5% 1/4W	R652	1-247-903-00	CARBON	1M 5% 1/4W
R544	1-247-745-11	CARBON	330 5% 1/2W	R802	1-249-443-11	CARBON	0.47 5% 1/4W
R545	1-249-433-11	CARBON	22K 5% 1/4W				

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

D V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R805	1-249-448-11	CARBON	1.2 5% 1/4W		C01	1-126-101-11	ELECT	100MF 20% 16V
R806	1-249-439-11	CARBON	68K 5% 1/4W		C02	1-124-120-11	ELECT	220MF 20% 16V
R807	1-216-869-11	METAL OXIDE	1K 5% 1W		C03	1-124-119-00	ELECT	330MF 20% 16V
R809	1-202-821-11	SOLID	1.8K 10% 1/2W		C04	1-124-477-11	ELECT	47MF 20% 16V
R810	1-202-818-00	SOLID	1K 10% 1/2W		C05	1-126-101-11	ELECT	100MF 20% 16V
R811	1-215-882-00	METAL OXIDE	22 5% 2W	F	C06	1-124-120-11	ELECT	220MF 20% 16V
R812	1-249-494-11	CARBON	68K 5% 1/2W		C07	1-124-499-11	ELECT	1MF 20% 50V
R815	1-215-884-11	METAL OXIDE	47 5% 2W	F	C08	1-163-097-00	CERAMIC CHIP	15PF 5% 50V
R816	1-215-868-00	METAL OXIDE	680 5% 1W		C09	1-163-141-00	CERAMIC CHIP	0.001MF 10% 50V
R817	1-249-417-11	CARBON	1K 5% 1/4W		C10	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R820	1-249-403-11	CARBON	68 5% 1/4W		C11	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V
R821	1-247-725-11	CARBON	10K 5% 1/4W	F	C12	1-163-127-00	CERAMIC CHIP	270PF 5% 50V
R822	1-217-778-11	FUSIBLE	1K 5% 1W	F	C13	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W	F	C14	1-163-097-00	CERAMIC CHIP	15PF 5% 50V
R826	1-249-441-11	CARBON	100K 5% 1/4W		C15	1-163-103-00	CERAMIC CHIP	27PF 5% 50V
R827	1-249-429-11	CARBON	10K 5% 1/4W		C16	1-163-021-00	CERAMIC CHIP	0.01MF 10% 50V
R828	1-249-423-11	CARBON	3.3K 5% 1/4W		C17	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
R829	1-249-416-11	CARBON	820 5% 1/4W		C18	1-163-099-00	CERAMIC CHIP	18PF 5% 50V
R830	1-249-429-11	CARBON	10K 5% 1/4W		C19	1-163-809-11	CERAMIC CHIP	0.047MF 10% 25V
R831	1-249-451-11	CARBON	2.2 5% 1/4W		C20	1-163-125-00	CERAMIC CHIP	220PF 5% 50V
R1001	1-249-421-11	CARBON	2.2K 5% 1/4W		C21	1-163-833-00	CERAMIC CHIP	0.068MF 25V
R1002	1-249-423-11	CARBON	3.3K 5% 1/4W		C24	1-126-101-11	ELECT	100MF 20% 16V
R1003	1-249-413-11	CARBON	470 5% 1/4W		C25	1-124-477-11	ELECT	47MF 20% 16V
R1004	1-249-408-11	CARBON	180 5% 1/4W		C27	1-163-129-00	CERAMIC CHIP	330PF 5% 50V
R1005	1-249-408-11	CARBON	180 5% 1/4W		C28	1-163-137-00	CERAMIC CHIP	680PF 10% 50V
R1006	1-249-408-11	CARBON	180 5% 1/4W		C29	1-124-927-11	ELECT	4.7MF 20% 50V
R1007	1-249-408-11	CARBON	180 5% 1/4W		C51	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R1009	1-249-417-11	CARBON	1K 5% 1/4W		C52	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R1012	1-249-405-11	CARBON	100 5% 1/4W		C53	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R5501	1-249-429-11	CARBON	10K 5% 1/4W		C54	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R5502	1-249-417-11	CARBON	1K 5% 1/4W		C55	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R5503	1-249-389-11	CARBON	4.7 5% 1/4W		C56	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R5504	1-247-903-00	CARBON	1M 5% 1/4W		C57	1-163-141-00	CERAMIC CHIP	0.001MF 10% 50V
R5505	1-249-393-11	CARBON	10 5% 1/4W		C58	1-163-141-00	CERAMIC CHIP	0.001MF 10% 50V
<VARIABLE RESISTOR>								
RV501	1-228-991-00	RES, ADJ, CARBON	2.2K		<TRIMMER>			
RV502	1-228-994-00	RES, ADJ, CARBON	10K		CT01 1-141-392-11 CAP, VAR, TRIMMER (1 GANG)			
RV601	1-228-991-00	RES, ADJ, CARBON	2.2K					
<SPARK GAP>								
SG801	1-519-063-XX	DISCHARGING GAP		D01	8-719-400-47	DIODE	MA3056M	
<TRANSFORMER>								
T601	$\Delta$ 1-448-961-31	S.R.T		D02	8-719-400-95	DIODE	MA3130L	
T602	$\Delta$ 1-424-011-12	TRANSFORMER, PULSE		D03	8-719-914-43	DIODE	DAN202K	
T801	$\Delta$ 1-437-090-21	HDT		D04	8-719-420-42	DIODE	MA3036H	
<TERMINAL PIN>								
TP91	*1-535-084-00	1P TERMINAL PIN		D05	8-719-400-63	DIODE	MA3068M	
*****								
*A-1347-030-A	V BOARD, COMPLETE		*****	D09	8-719-914-43	DIODE	DAN202K	
*4-380-698-01	CASE (MAIN), SHIELD, A1		*****	D10	8-719-914-43	DIODE	DAN202K	
*4-380-699-01	CASE (UPPER LID), SHIELD, A1			D11	8-719-914-44	DIODE	DAP202K	
*4-382-701-01	CASE (BOTTOM LID), SHIELD, A2			D12	8-719-914-44	DIODE	DAP202K	
<CAPACITOR>								
<IC>								
IC1	8-759-972-41	IC	MAB8461P-W136					
IC2	8-759-972-96	IC	SAA5231-V6					
IC3	8-759-946-85	IC	SAA5243E					
IC4	8-759-230-68	IC	TMM2063P-70					
<COIL>								
L01	1-408-411-00	INDUCTOR	15UH					
L02	1-408-407-00	INDUCTOR	6.8UH					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
L03	1-408-407-00	INDUCTOR	6.8UH	R64	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
L04	1-408-407-00	INDUCTOR	6.8UH	R65	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
L05	1-408-407-00	INDUCTOR	6.8UH	R66	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
L06	1-408-407-00	INDUCTOR	6.8UH	R67	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
<TRANSISTOR>											
Q01	8-729-904-27	TRANSISTOR 2SD1761-E		R68	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
Q02	8-729-202-06	TRANSISTOR 2SC2873Y		R69	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
Q03	8-729-900-53	TRANSISTOR DTC114EK		<VARIABLE RESISTOR>							
Q04	8-729-271-22	TRANSISTOR 2SC2712G		RV01	1-238-009-11	RES, ADJ, CARBON 220					
Q05	8-729-202-06	TRANSISTOR 2SC2873Y		<CONNECTOR>							
Q06	8-729-271-22	TRANSISTOR 2SC2712G		CNV03	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					
Q07	8-729-271-22	TRANSISTOR 2SC2712G		V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P					
Q09	8-729-800-68	TRANSISTOR 2SB815B6		V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P					
Q10	8-729-800-68	TRANSISTOR 2SB815B6		V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P					
Q11	8-729-800-68	TRANSISTOR 2SB815B6		V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)					
<RESISTOR>											
R01	1-218-326-11	METAL GLAZE	470 1/2W	V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					
R02	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	<CRYSTAL>							
R04	1-218-326-11	METAL GLAZE	470 1/2W	X01	1-567-162-21	OSCILLATOR, CRYSTAL					
R05	1-216-025-00	METAL GLAZE	100 5% 1/10W	X02	1-567-495-21	OSCILLATOR, CRYSTAL					
R06	1-216-049-00	METAL GLAZE	1K 5% 1/10W	X03	1-577-082-11	VIBRATOR, CERAMIC					
R07	1-216-025-00	METAL GLAZE	100 5% 1/10W	*****							
R08	1-216-037-00	METAL GLAZE	330 5% 1/10W	*A-1371-335-A J1 BOARD, COMPLETE							
R09	1-216-091-00	METAL GLAZE	56K 5% 1/10W	*****							
R13	1-216-025-00	METAL GLAZE	100 5% 1/10W	<CAPACITOR>							
R14	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1407	1-124-477-11	ELECT	47MF 20% 16V				
R15	1-216-121-00	METAL GLAZE	1M 5% 1/10W	C1415	1-124-902-00	ELECT	0.47MF 20% 50V				
R16	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	C1416	1-124-902-00	ELECT	0.47MF 20% 50V				
R17	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1418	1-102-112-00	CERAMIC	330PF 10% 50V				
R18	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1419	1-102-112-00	CERAMIC	330PF 10% 50V				
R19	1-216-037-00	METAL GLAZE	330 5% 1/10W	C1423	1-106-375-12	MYLAR	0.022MF 10% 250V				
R20	1-216-043-00	METAL GLAZE	560 5% 1/10W	C1424	1-106-375-12	MYLAR	0.022MF 10% 250V				
R27	1-216-013-00	METAL GLAZE	33 5% 1/10W	C1427	1-101-003-00	CERAMIC	0.0047MF 50V				
R28	1-216-013-00	METAL GLAZE	33 5% 1/10W	C1428	1-101-003-00	CERAMIC	0.0047MF 50V				
R29	1-216-013-00	METAL GLAZE	33 5% 1/10W	C1431	1-124-902-00	ELECT	0.47MF 20% 50V				
R30	1-218-325-11	METAL GLAZE	120 1/4W	C1432	1-124-902-00	ELECT	0.47MF 20% 50V				
R31	1-218-325-11	METAL GLAZE	120 1/4W	C1433	1-126-101-11	ELECT	100MF 20% 16V				
R32	1-218-325-11	METAL GLAZE	120 1/4W	C1501	1-123-875-11	ELECT	10MF 20% 50V				
R33	1-216-023-00	METAL GLAZE	82 5% 1/10W	C1502	1-123-875-11	ELECT	10MF 20% 50V				
R34	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1503	1-108-614-11	MYLAR	0.001MF 10% 100V				
R37	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1504	1-124-910-11	ELECT	47MF 20% 50V				
R38	1-216-047-00	METAL GLAZE	820 5% 1/10W	C1505	1-106-383-00	MYLAR	0.047MF 10% 100V				
R40	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1507	1-108-620-11	MYLAR	0.0033MF 10% 100V				
R41	1-216-041-00	METAL GLAZE	470 5% 1/10W	C1508	1-123-875-11	ELECT	10MF 20% 50V				
R43	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1509	1-124-499-11	ELECT	1MF 20% 50V				
R44	1-216-041-00	METAL GLAZE	470 5% 1/10W	C1511	1-123-875-11	ELECT	10MF 20% 50V				
R45	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1512	1-106-363-00	MYLAR	0.0068MF 10% 400V				
R46	1-216-311-00	METAL GLAZE	6.8 5% 1/10W	C1507	1-108-620-11	MYLAR	0.0033MF 10% 100V				
R51	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1508	1-123-875-11	ELECT	10MF 20% 50V				
R52	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1509	1-124-499-11	ELECT	1MF 20% 50V				
R53	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1511	1-123-875-11	ELECT	10MF 20% 50V				
R54	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1512	1-106-363-00	MYLAR	0.0068MF 10% 400V				
R55	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C1513	1-102-963-00	CERAMIC	33PF 5% 50V				
R56	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1514	1-106-353-00	MYLAR	0.027MF 10% 250V				
R57	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C1515	1-102-117-00	CERAMIC	820PF 10% 50V				
R58	1-216-049-00	METAL GLAZE	1K 5% 1/10W	<CONNECTOR>							
R59	1-216-056-00	METAL GLAZE	2K 5% 1/10W	CN1401	1-537-088-11	TERMINAL BOARD, INPUT/OUTPUT					
R60	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	CN1402	1-561-534-41	SOCKET 21P					
R61	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	CNJ41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P					
R62	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W								
R63	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W								

J1 J2 H8

The components identified by shading and mark **▲** are critical for safety.  
Replace only with part number specified.

**H8** **H7** **KS**

REF. NO. PART NO. DESCRIPTION

REF. NO. PART NO. DESCRIPTION

R1498 1-249-414-11 CARBON 560 5% 1/4W

<CONNECTOR>

\*\*\*\*\*

CNK21 \*1-562-370-21 CONNECTOR, BOARD TO BOARD 18P

\*1-625-203-11 H7 BOARD  
\*\*\*\*\*

<DIODE>

D205 8-719-110-04 DIODE RD7.5ES-B3  
D206 8-719-110-04 DIODE RD7.5ES-B3

<CONNECTOR>

CNH702\*1-564-898-11 PLUG, CONNECTOR 9P  
CNH703\*1-564-892-41 PLUG, CONNECTOR 3P

<IC>

IC201 8-759-013-17 IC TDA6200

<DIODE>

D1405 8-719-812-41 DIODE TLR124  
4-359-103-00 HOLDER, LED; D1405

<RESISTOR>

R204 1-249-435-11 CARBON 33K 5% 1/4W  
R205 1-249-435-11 CARBON 33K 5% 1/4W  
R206 1-249-423-11 CARBON 3.3K 5% 1/4W  
R207 1-249-423-11 CARBON 3.3K 5% 1/4W  
R208 1-249-431-11 CARBON 15K 5% 1/4W

<SWITCH>

S1401 1-571-085-21 SWITCH, TACTILE  
S1402 1-571-085-21 SWITCH, TACTILE  
S1403 1-571-085-21 SWITCH, TACTILE  
S1404 1-571-085-21 SWITCH, TACTILE  
S1405 1-571-085-21 SWITCH, TACTILE

R209 1-249-433-11 CARBON 22K 5% 1/4W  
R210 1-249-431-11 CARBON 15K 5% 1/4W  
R211 1-249-441-11 CARBON 100K 5% 1/4W  
R212 1-249-433-11 CARBON 22K 5% 1/4W  
R213 1-249-431-11 CARBON 15K 5% 1/4W

S1406 1-571-085-21 SWITCH, TACTILE  
S1407 1-571-085-21 SWITCH, TACTILE  
S1408 1-571-085-21 SWITCH, TACTILE  
S1409 1-571-085-21 SWITCH, TACTILE  
S1410 1-571-085-21 SWITCH, TACTILE

R214 1-249-417-11 CARBON 1K 5% 1/4W  
R215 1-249-433-11 CARBON 22K 5% 1/4W  
R216 1-249-433-11 CARBON 22K 5% 1/4W  
R217 1-249-431-11 CARBON 15K 5% 1/4W  
R218 1-249-417-11 CARBON 1K 5% 1/4W

S1411 1-571-085-21 SWITCH, TACTILE  
S1412 1-571-085-21 SWITCH, TACTILE  
S1414 1-571-085-21 SWITCH, TACTILE

R219 1-249-429-11 CARBON 10K 5% 1/4W  
R221 1-249-417-11 CARBON 1K 5% 1/4W  
R222 1-249-417-11 CARBON 1K 5% 1/4W  
R225 1-249-417-11 CARBON 1K 5% 1/4W  
R226 1-249-417-11 CARBON 1K 5% 1/4W

\*\*\*\*\*  
\*1-625-206-11 KS BOARD  
\*\*\*\*\*

\*\*\*\*\*

<CAPACITOR>

C202 1-124-902-00 ELECT 0.47MF 20% 50V  
C204 1-124-902-00 ELECT 0.47MF 20% 50V  
C213 1-126-233-11 ELECT 22MF 20% 50V  
C214 1-106-363-00 MYLAR 0.0068MF 10% 400V  
C217 1-106-363-00 MYLAR 0.0068MF 10% 400V

MISCELLANEOUS

\*\*\*\*\*

C218 1-106-375-12 MYLAR 0.022MF 10% 250V  
C219 1-106-375-12 MYLAR 0.022MF 10% 250V  
C220 1-108-620-11 MYLAR 0.0033MF 10% 100V  
C221 1-108-620-11 MYLAR 0.0033MF 10% 100V  
C222 1-106-375-12 MYLAR 0.022MF 10% 250V

1-503-642-41 SPEAKER  
▲ 1-451-311-21 DEFLECTION YOKE (SY-178)  
1-452-032-00 MAGNET, DISK; 10MM  $\phi$   
1-452-094-00 MAGNET, DISK; 15MM  $\phi$   
▲ 1-559-346-11 CORD, POWER (WITH CONNECTOR) (AEP ONLY)  
▲ 1-559-912-12 CORD, POWER (WITH CONNECTOR) (AUS ONLY)

C223 1-106-375-12 MYLAR 0.022MF 10% 250V  
C224 1-106-367-00 MYLAR 0.01MF 10% 400V  
C225 1-136-173-00 FILM 0.47MF 5% 50V  
C226 1-136-173-00 FILM 0.47MF 5% 50V  
C227 1-106-375-12 MYLAR 0.022MF 10% 250V

L901 ▲ 1-426-372-11 COIL, DEMAGNETIZATION  
T802 ▲ 1-439-416-11 TRANSFORMER ASSY, FLYBACK  
V901 ▲ 8-733-224-05 PICTURE TUBE (A59JWC60X) (AEP ONLY)  
▲ 8-733-225-05 PICTURE TUBE (A59JWB10X) (AUS ONLY)

C228 1-106-379-12 MYLAR 0.033MF 10% 250V  
C229 1-106-371-00 MYLAR 0.015MF 10% 400V  
C230 1-106-371-00 MYLAR 0.015MF 10% 400V  
C231 1-124-902-00 ELECT 0.47MF 20% 50V  
C232 1-123-875-11 ELECT 10MF 20% 50V

ACCESSORIES AND PACKING MATERIALS

\*\*\*\*\*

C233 1-102-114-00 CERAMIC 470PF 10% 50V  
C234 1-102-114-00 CERAMIC 470PF 10% 50V  
C235 1-102-114-00 CERAMIC 470PF 10% 50V  
C236 1-102-114-00 CERAMIC 470PF 10% 50V  
C237 1-124-902-00 ELECT 0.47MF 20% 50V

A-1470-844-A COMMANDER ASSY (RM-673)  
3-786-463-11 MANUAL, INSTRUCTION (FOR OTHERS)  
3-786-463-61 MANUAL, INSTRUCTION (FOR GERMANY)  
\*4-366-617-01 BAG, PROTECTION

C238 1-102-978-00 CERAMIC 220PF 5% 50V  
C239 1-126-103-11 ELECT 470MF 20% 16V

\*4-387-259-01 INDIVIDUAL CARTON  
\*4-387-261-01 CUSHION (LOWER)  
\*4-387-262-01 CUSHION (UPPER ASSY)

Sony Corporation

TV Group

9-964-175-01

English

881J0243-1

Printed in Japan

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**KV-C25TD**  
**FM-678**

**SONY<sup>®</sup>**  
**SERVICE MANUAL**

*AEP Model*  
*Australian Model*

*Chassis No. SCC-B14Q-A*

## **SUPPLEMENT-1**

**SUBJECT: CIRCUIT MODIFICATION**

File this supplement with the Service Manual.

### **1. INTRODUCTION**

1. A Circuit board has been changed.
2. B Circuit board has been changed.
3. J1 Circuit board has been changed.



**MICROFILM**

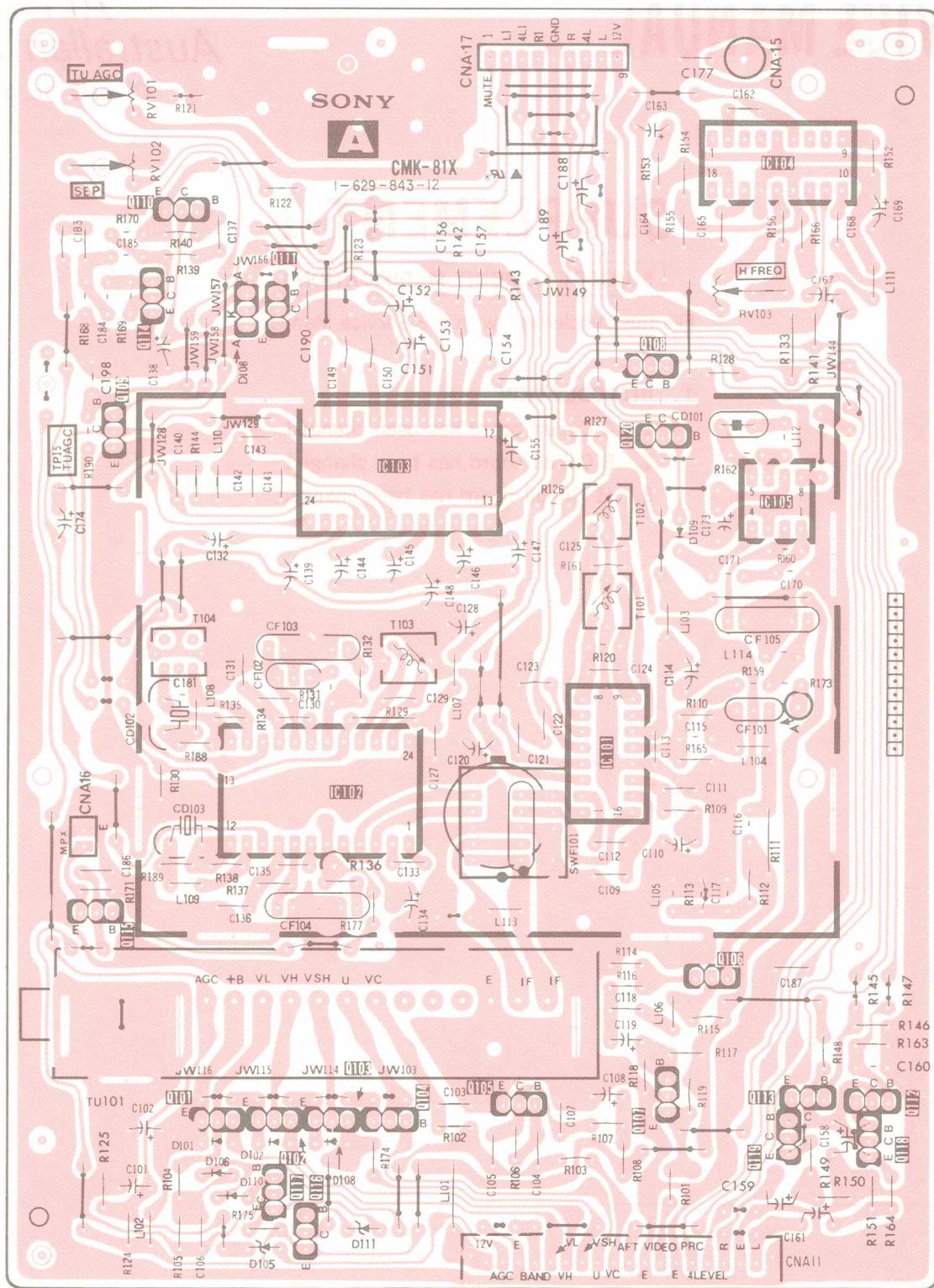
## SECTION 5 DIAGRAMS

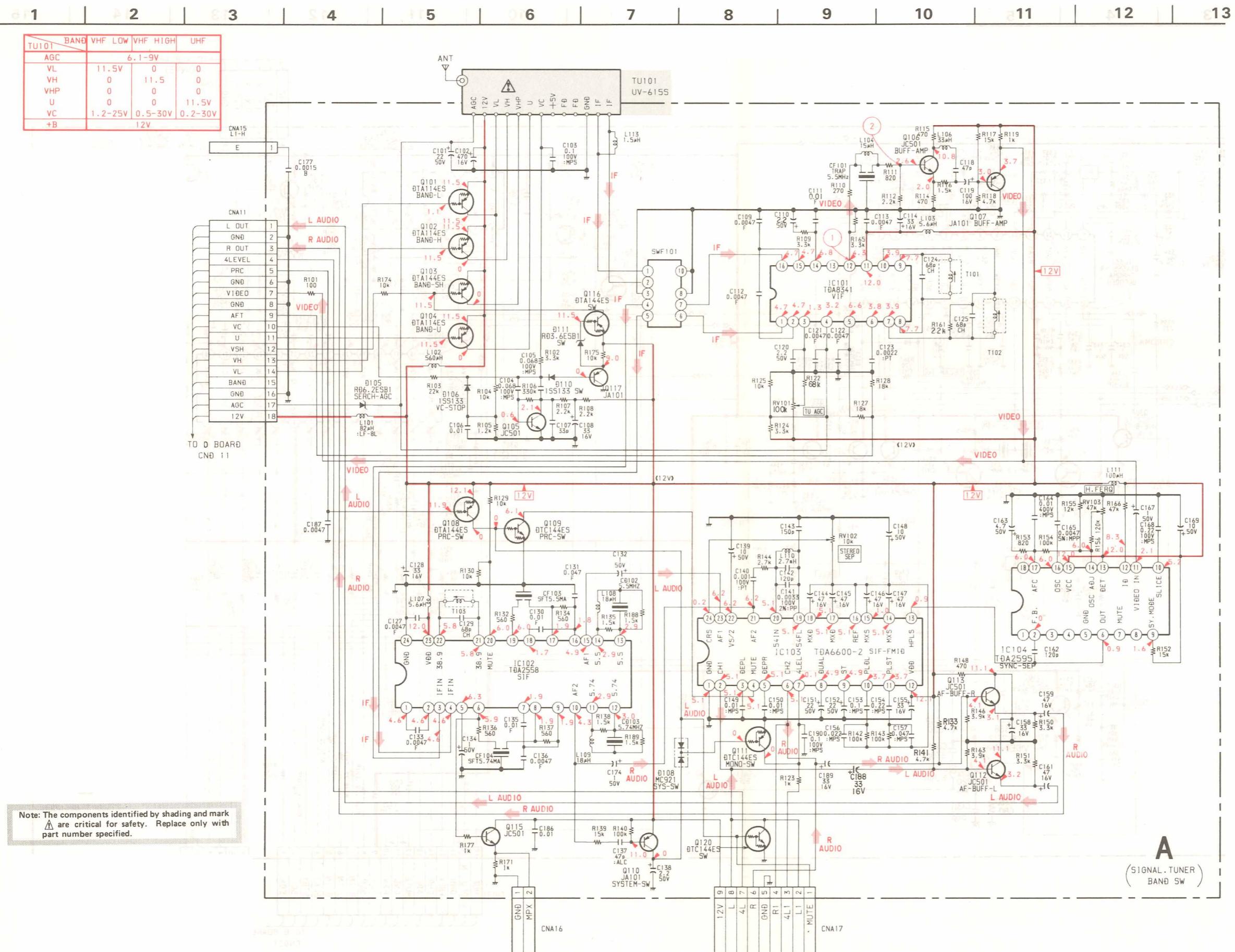
A

[SIGNAL TUNER, BAND SW]

## PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

—A Board—



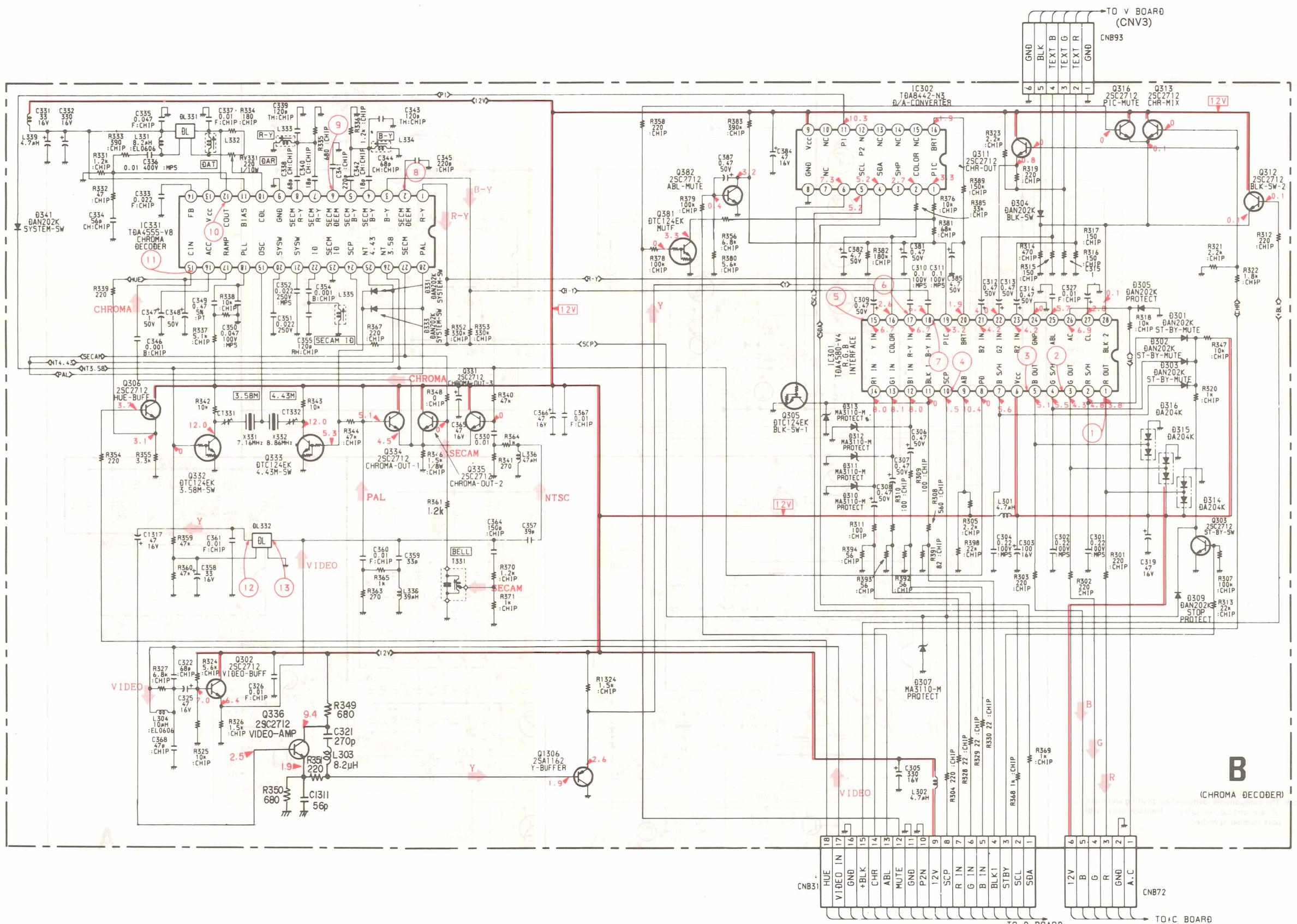


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A

IC331

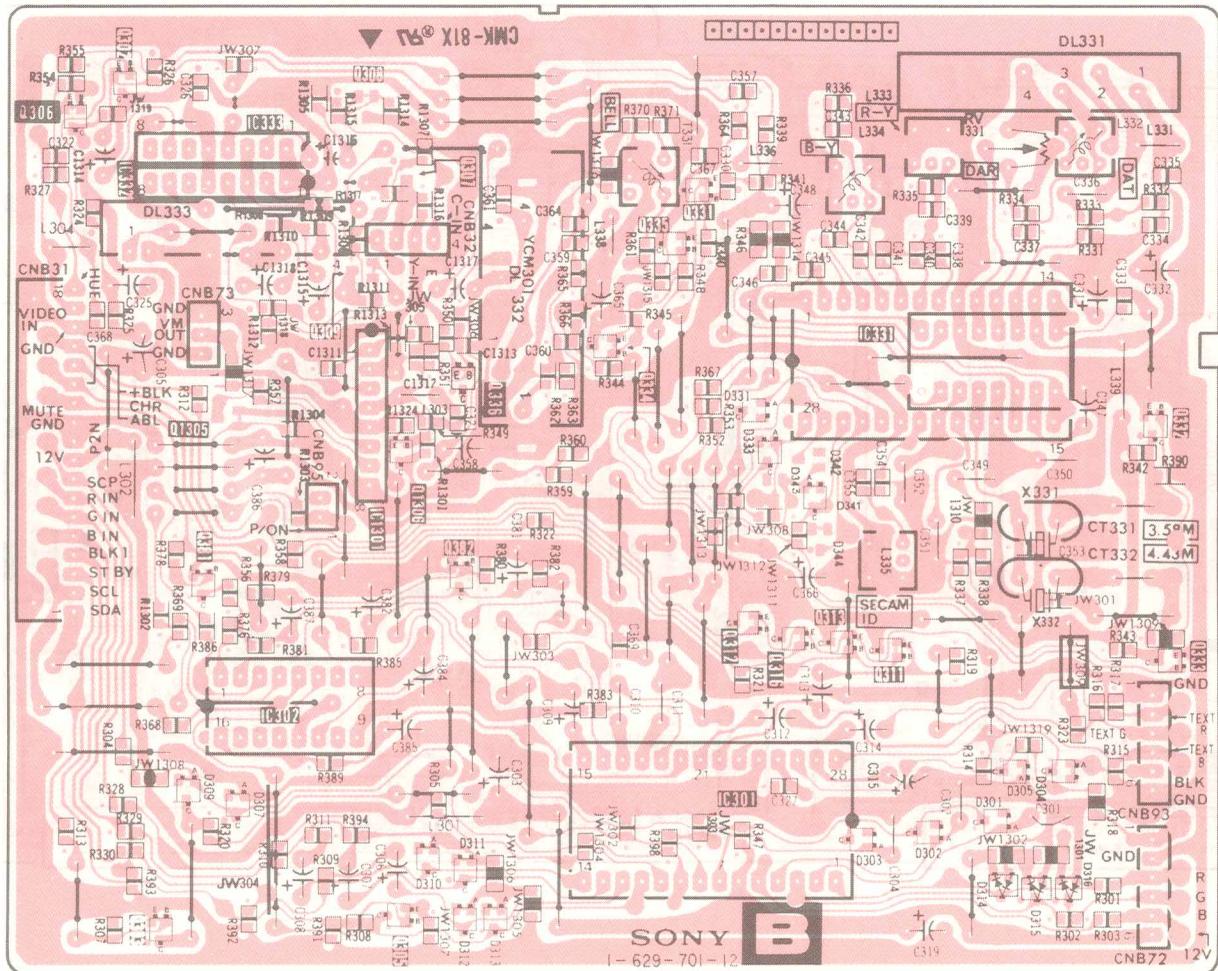
PIN NO.	PAL	SECAM	NTSC	NTSC
1	7.2	7.2	7.2	7.2
2	7.8	7.8	7.8	7.8
3	7.1	7.1	7.1	7.1
4	4.4	4.4	4.4	4.4
5	5.0	4.0	5.8	5.5
6	7.8	7.8	7.8	7.8
7	4.8	5.6	5.6	5.2
8	4.4	4.4	4.4	4.4
9	0	0	0	0
10	2.3	2.3	2.3	2.3
11	2.3	2.5	2.5	2.5
12	7.6	7.6	7.6	7.6
13	12.0	12.0	12.0	12.0
14	5.6	5.6	5.6	5.6
15	5.1	3.1	3.1	3.1
16	7.7	7.7	7.7	7.7
17	2.8	2.8	2.8	2.8
18	7.4	7.4	7.4	7.4
19	2.2	2.2	2.2	2.2
20	0	0	0	0
21	7.3	7.3	7.3	7.3
22	3.9	3.9	3.9	3.9
23	0	0	0	0
24	1.5	1.5	1.5	1.5
25	0	0	0	5.5
26	0	0	5.5	0
27	0	5.5	0	0
28	5.5	0	0	0



B

### [CHROMA DECODER]

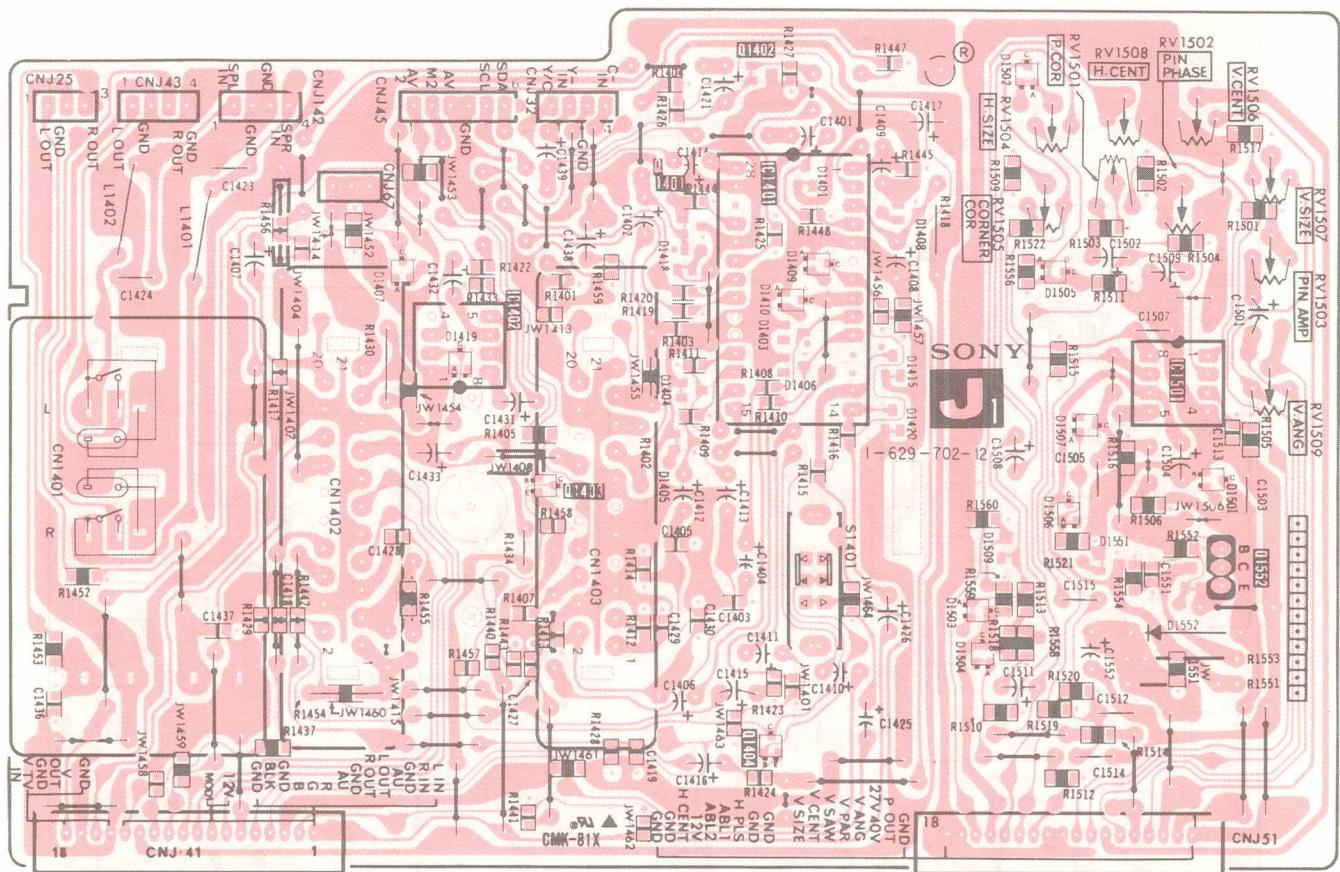
## —B Board—

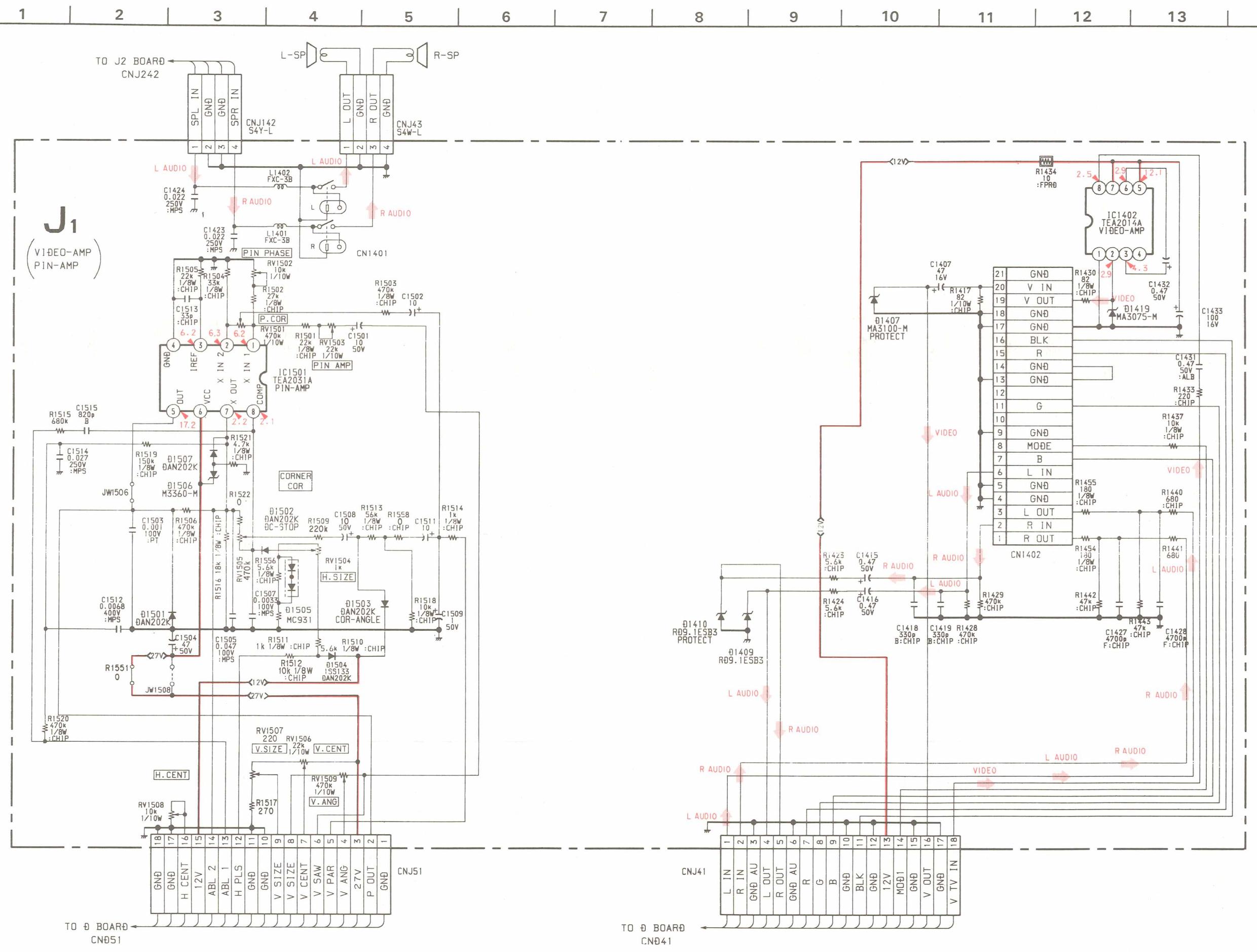


J1

[VIDEO-AMP, PIN-AMP]

—J1 Board—







B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
	*A-1135-598-A	B BOARD, COMPLETE	*****	C357	1-163-107-00	CERAMIC CHIP 39PF	5% 50V		
		*****		C358	1-124-963-11	ELECT 33MF	20% 16V		
				C359	1-163-105-00	CERAMIC CHIP 33PF	5% 50V		
				C360	1-164-232-11	CERAMIC CHIP 0.01MF	50V		
		<CAPACITOR>		C361	1-164-232-11	CERAMIC CHIP 0.01MF	50V		
C301	1-106-228-00	MYLAR	0.22MF	10%	100V	C364	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C302	1-106-228-00	MYLAR	0.22MF	10%	100V	C365	1-124-477-11	ELECT 47MF	20% 16V
C303	1-126-101-11	ELECT	100MF	20%	16V	C366	1-124-477-11	ELECT 47MF	20% 16V
C304	1-106-228-00	MYLAR	0.22MF	10%	100V	C367	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C305	1-124-119-00	ELECT	330MF	20%	16V	C368	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C306	1-124-902-00	ELECT	0.47MF	20%	50V	C381	1-124-902-00	ELECT 0.47MF	20% 50V
C307	1-124-902-00	ELECT	0.47MF	20%	50V	C382	1-124-927-11	ELECT 4.7MF	20% 50V
C308	1-124-902-00	ELECT	0.47MF	20%	50V	C384	1-124-477-11	ELECT 47MF	20% 16V
C309	1-124-902-00	ELECT	0.47MF	20%	50V	C385	1-124-927-11	ELECT 4.7MF	20% 50V
C310	1-106-220-00	MYLAR	0.1MF	10%	100V	C387	1-124-902-00	ELECT 0.47MF	20% 50V
C311	1-106-220-00	MYLAR	0.1MF	10%	100V	C1311	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C312	1-124-902-00	ELECT	0.47MF	20%	50V				
C313	1-124-902-00	ELECT	0.47MF	20%	50V				
C314	1-124-902-00	ELECT	0.47MF	20%	50V				
C315	1-124-791-11	ELECT	1MF	20%	50V				
C319	1-124-477-11	ELECT	47MF	20%	16V	CNB31	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
C321	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	CNB72	*1-564-895-11	PLUG, CONNECTOR 6P	
C322	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	CNB93	*1-560-278-41	PLUG, CONNECTOR 6P	
C325	1-124-477-11	ELECT	47MF	20%	16V				
C326	1-164-232-11	CERAMIC CHIP	0.01MF		50V				
C327	1-164-232-11	CERAMIC CHIP	0.01MF		50V	CT331	1-141-181-11	CAP, TRIMMER	
C330	1-164-232-11	CERAMIC CHIP	0.01MF		50V	CT332	1-141-181-11	CAP, TRIMMER	
C331	1-124-963-11	ELECT	33MF	20%	16V				
C332	1-124-119-00	ELECT	330MF	20%	16V				
C333	1-163-033-00	CERAMIC CHIP	0.022MF		50V				
C334	1-163-111-00	CERAMIC CHIP	56PF	5%	50V	D301	8-719-400-18	DIODE MA152WK	
C335	1-163-035-00	CERAMIC CHIP	0.047MF		50V	D302	8-719-400-18	DIODE MA152WK	
C336	1-106-367-00	MYLAR	0.01MF	10%	400V	D303	8-719-400-18	DIODE MA152WK	
C337	1-164-232-11	CERAMIC CHIP	0.01MF		50V	D304	8-719-400-18	DIODE MA152WK	
C338	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	D305	8-719-400-18	DIODE MA152WK	
C339	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	D307	8-719-106-62	DIODE RD11M-B2	
C340	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	D309	8-719-400-18	DIODE MA152WK	
C341	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	D310	8-719-106-62	DIODE RD11M-B2	
C342	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	D311	8-719-106-62	DIODE RD11M-B2	
C343	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	D312	8-719-106-62	DIODE RD11M-B2	
C344	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	D313	8-719-106-62	DIODE RD11M-B2	
C345	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	D314	8-719-800-76	DIODE ISS226	
C346	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D315	8-719-800-76	DIODE ISS226	
C347	1-124-791-11	ELECT	1MF	20%	50V	D316	8-719-800-76	DIODE ISS226	
C348	1-124-791-11	ELECT	1MF	20%	50V	D331	8-719-400-18	DIODE MA152WK	
C349	1-136-173-00	FILM	0.47MF	5%	50V	D333	8-719-400-18	DIODE MA152WK	
C350	1-106-383-00	MYLAR	0.047MF	10%	100V	D341	8-719-400-18	DIODE MA152WK	
C351	1-106-375-12	MYLAR	0.022MF	10%	250V				
C352	1-106-375-12	MYLAR	0.022MF	10%	250V				
C354	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V				
C355	1-163-119-00	CERAMIC CHIP	120PF	5%	50V	DL331	1-415-122-00	DELAY LINE	

**B**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
DL332	1-236-062-11	MODULE, Y DELAY LINE		JW1316	1-216-296-00	METAL GLAZE	0 5% 1/8W
		<IC>		JW1319	1-216-295-00	METAL GLAZE	0 5% 1/10W
IC301	8-759-979-85	IC TDA4580-V4		JW1320	1-216-295-00	METAL GLAZE	0 5% 1/10W
IC302	8-759-980-60	IC TDA8442-N3		R301	1-216-033-00	METAL GLAZE	220 5% 1/10W
IC331	8-759-947-20	IC TDA4555-V8		R302	1-216-033-00	METAL GLAZE	220 5% 1/10W
		<COIL>		R303	1-216-033-00	METAL GLAZE	220 5% 1/10W
L301	1-410-868-21	INDUCTOR	4.7UH	R304	1-216-033-00	METAL GLAZE	220 5% 1/10W
L302	1-410-868-21	INDUCTOR	4.7UH	R305	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
L303	1-408-408-00	INDUCTOR	8.2UH	R307	1-216-097-00	METAL GLAZE	100K 5% 1/10W
L304	1-408-409-00	INDUCTOR	10UH	R308	1-216-043-00	METAL GLAZE	560 5% 1/10W
L331	1-408-408-00	INDUCTOR	8.2UH	R309	1-216-025-00	METAL GLAZE	100 5% 1/10W
L332	1-404-539-11	COIL		R310	1-216-025-00	METAL GLAZE	100 5% 1/10W
L333	1-404-554-11	COIL		R311	1-216-025-00	METAL GLAZE	100 5% 1/10W
L334	1-404-554-11	COIL		R312	1-216-033-00	METAL GLAZE	220 5% 1/10W
L335	1-404-554-11	COIL		R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
L336	1-408-417-00	INDUCTOR	47UH	R314	1-216-041-00	METAL GLAZE	470 5% 1/10W
L338	1-408-416-00	INDUCTOR	39UH	R315	1-216-029-00	METAL GLAZE	150 5% 1/10W
L339	1-410-868-21	INDUCTOR	4.7UH	R316	1-216-029-00	METAL GLAZE	150 5% 1/10W
		<TRANSISTOR>		R317	1-216-029-00	METAL GLAZE	150 5% 1/10W
Q302	8-729-271-22	TRANSISTOR 2SC2712-G		R318	1-216-222-00	METAL GLAZE	10K 5% 1/8W
Q303	8-729-271-22	TRANSISTOR 2SC2712-G		R319	1-216-033-00	METAL GLAZE	220 5% 1/10W
Q305	8-729-901-00	TRANSISTOR DTC124EK		R320	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q306	8-729-271-22	TRANSISTOR 2SC2712-G		R321	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q311	8-729-271-22	TRANSISTOR 2SC2712-G		R322	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
Q312	8-729-271-22	TRANSISTOR 2SC2712-G		R323	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q313	8-729-271-22	TRANSISTOR 2SC2712-G		R324	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
Q316	8-729-271-22	TRANSISTOR 2SC2712-G		R325	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q331	8-729-271-22	TRANSISTOR 2SC2712-G		R326	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
Q332	8-729-901-00	TRANSISTOR DTC124EK		R327	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
Q333	8-729-901-00	TRANSISTOR DTC124EK		R328	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q334	8-729-271-22	TRANSISTOR 2SC2712-G		R329	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q335	8-729-271-22	TRANSISTOR 2SC2712-G		R330	1-216-009-00	METAL GLAZE	22 5% 1/10W
Q336	8-729-271-22	TRANSISTOR 2SC2712-G		R331	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
Q381	8-729-901-00	TRANSISTOR DTC124EK		R332	1-216-017-00	METAL GLAZE	47 5% 1/10W
Q382	8-729-271-22	TRANSISTOR 2SC2712-G		R333	1-216-039-00	METAL GLAZE	390 5% 1/10W
Q1306	8-729-216-22	TRANSISTOR 2SA1162-G		R334	1-216-031-00	METAL GLAZE	180 5% 1/10W
		<RESISTOR>		R335	1-216-045-00	METAL GLAZE	680 5% 1/10W
JW303	1-216-295-00	METAL GLAZE	0 5% 1/10W	R336	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
JW305	1-216-295-00	METAL GLAZE	0 5% 1/10W	R337	1-216-066-00	METAL GLAZE	5.1K 5% 1/10W
JW306	1-216-295-00	METAL GLAZE	0 5% 1/10W	R338	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JW307	1-216-295-00	METAL GLAZE	0 5% 1/10W	R339	1-216-033-00	METAL GLAZE	220 5% 1/10W
JW1301	1-216-296-00	METAL GLAZE	0 5% 1/8W	R340	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JW1302	1-216-296-00	METAL GLAZE	0 5% 1/8W	R341	1-216-035-00	METAL GLAZE	270 5% 1/10W
JW1303	1-216-295-00	METAL GLAZE	0 5% 1/10W	R342	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JW1304	1-216-295-00	METAL GLAZE	0 5% 1/10W	R343	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JW1305	1-216-296-00	METAL GLAZE	0 5% 1/8W	R344	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JW1306	1-216-296-00	METAL GLAZE	0 5% 1/8W	R346	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
JW1307	1-216-295-00	METAL GLAZE	0 5% 1/10W	R347	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JW1308	1-216-296-00	METAL GLAZE	0 5% 1/8W	R348	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JW1309	1-216-296-00	METAL GLAZE	0 5% 1/8W	R349	1-216-045-00	METAL GLAZE	680 5% 1/10W
JW1310	1-216-296-00	METAL GLAZE	0 5% 1/8W	R350	1-216-045-00	METAL GLAZE	680 5% 1/10W
JW1311	1-216-295-00	METAL GLAZE	0 5% 1/10W	R351	1-216-033-00	METAL GLAZE	220 5% 1/10W
JW1312	1-216-295-00	METAL GLAZE	0 5% 1/10W	R352	1-216-109-00	METAL GLAZE	330K 5% 1/10W
JW1313	1-216-295-00	METAL GLAZE	0 5% 1/10W	R353	1-216-109-00	METAL GLAZE	330K 5% 1/10W
JW1314	1-216-296-00	METAL GLAZE	0 5% 1/8W	R354	1-216-033-00	METAL GLAZE	220 5% 1/10W
JW1315	1-216-295-00	METAL GLAZE	0 5% 1/10W	R355	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
				R356	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
				R358	1-216-033-00	METAL GLAZE	220 5% 1/10W
				R359	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R360	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R361	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
				R363	1-216-035-00	METAL GLAZE	270 5% 1/10W
				R364	1-216-049-00	METAL GLAZE	1K 5% 1/10W

**B** | **J1**

REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
R365	1-216-049-00	METAL GLAZE	1K	5%	1/10W		*A-1371-578-A	J1 BOARD, COMPLETE	*****				
R367	1-216-033-00	METAL GLAZE	220	5%	1/10W								
R368	1-216-049-00	METAL GLAZE	1K	5%	1/10W								
R369	1-216-049-00	METAL GLAZE	1K	5%	1/10W								
R370	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W								
									<CAPACITOR>				
R371	1-216-049-00	METAL GLAZE	1K	5%	1/10W		C1407	1-124-477-11	ELECT	47MF	20%	16V	
R376	1-216-073-00	METAL GLAZE	10K	5%	1/10W		C1415	1-106-383-00	MYLAR	0.047MF	10%	100V	
R378	1-216-097-00	METAL GLAZE	100K	5%	1/10W		C1416	1-106-383-00	MYLAR	0.047MF	10%	100V	
R379	1-216-097-00	METAL GLAZE	100K	5%	1/10W		C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
R380	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W		C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
R381	1-216-093-00	METAL GLAZE	68K	5%	1/10W		C1423	1-106-375-12	MYLAR	0.022MF	10%	250V	
R382	1-216-103-00	METAL GLAZE	180K	5%	1/10W		C1424	1-106-375-12	MYLAR	0.022MF	10%	250V	
R383	1-216-111-00	METAL GLAZE	390K	5%	1/10W		C1427	1-136-017-00	CERAMIC CHIP	0.0047MF	50V		
R385	1-216-085-00	METAL GLAZE	33K	5%	1/10W		C1428	1-136-017-00	CERAMIC CHIP	0.0047MF	50V		
R389	1-216-101-00	METAL GLAZE	150K	5%	1/10W		C1431	1-124-902-00	ELECT	0.47MF	20%	50V	
R390	1-216-045-00	METAL GLAZE	680	5%	1/10W		C1432	1-124-902-00	ELECT	0.47MF	20%	50V	
R391	1-216-023-00	METAL GLAZE	82	5%	1/10W		C1433	1-126-101-11	ELECT	100MF	20%	16V	
R392	1-216-019-00	METAL GLAZE	56	5%	1/10W		C1501	1-123-875-11	ELECT	10MF	20%	50V	
R393	1-216-019-00	METAL GLAZE	56	5%	1/10W		C1502	1-123-875-11	ELECT	10MF	20%	50V	
R394	1-216-019-00	METAL GLAZE	56	5%	1/10W		C1503	1-108-614-11	MYLAR	0.001MF	10%	100V	
R398	1-216-081-00	METAL GLAZE	22K	5%	1/10W		C1504	1-124-910-11	ELECT	47MF	20%	50V	
R1324	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		C1505	1-106-383-00	MYLAR	0.047MF	10%	100V	
R1390	1-216-045-00	METAL GLAZE	680	5%	1/10W		C1507	1-108-620-11	MYLAR	0.0033MF	10%	100V	
							C1508	1-123-875-11	ELECT	10MF	20%	50V	
							C1509	1-124-791-11	ELECT	1MF	20%	50V	
		<VARIABLE RESISTOR>											
RV331	1-238-009-11	RES, ADJ, CARBON	220				C1511	1-123-875-11	ELECT	10MF	20%	50V	
		<TRANSFORMER>					C1512	1-106-363-00	MYLAR	0.0068MF	10%	400V	
T331	1-404-584-11	COIL					C1513	1-163-105-00	CERAMIC CHIP	33PF	52	50V	
		<CRYSTAL>					C1514	1-106-353-00	MYLAR	0.027MF	10%	250V	
X331	1-567-307-11	OSCILLATOR, CRYSTAL					C1515	1-102-117-00	CERAMIC	820PF	10%	50V	
X332	1-567-131-00	OSCILLATOR, CRYSTAL											
		<CONNECTOR>											
							CN1401	1-537-088-11	TERMINAL BOARD, INPUT/OUTPUT				
							CN1402	1-561-534-41	SOCKET 21P				
							CNJ41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
							CNJ43	*1-564-893-11	PLUG, CONNECTOR 4P				
							CNJ51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
							CNJ142	*1-564-893-11	PLUG, CONNECTOR 4P				
		<DIODE>											
							D1407	8-719-106-53	DIODE RD10M-B2				
							D1409	8-719-106-44	DIODE RD9.1M-B2				
							D1410	8-719-106-44	DIODE RD9.1M-B2				
							D1419	8-719-106-23	DIODE RD7.5M-B2				
							D1501	8-719-400-18	DIODE MA152WK				
							D1502	8-719-400-18	DIODE MA152WK				
							D1503	8-719-400-18	DIODE MA152WK				
							D1504	8-719-400-18	DIODE MA152WK				
							D1505	8-719-800-76	DIODE 1SS226				
							D1506	8-719-118-15	DIODE RD36M-B				

**J1**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1507	8-719-400-18	DIODE MA152WK		R1514	1-216-198-00	METAL GLAZE	1K 5% 1/8W
		<IC>		R1515	1-216-266-00	METAL GLAZE	680K 5% 1/8W
IC1402	8-759-946-32	IC TEA2014A		R1516	1-216-228-00	METAL GLAZE	18K 5% 1/8W
IC1501	8-759-942-16	IC TEA2031A		R1517	1-216-184-00	METAL GLAZE	270 5% 1/8W
		<COIL>		R1518	1-216-222-00	METAL GLAZE	10K 5% 1/8W
L1401	1-412-240-11	INDUCTOR, WIDE BAND		R1519	1-216-250-00	METAL GLAZE	150K 5% 1/8W
L1402	1-412-240-11	INDUCTOR, WIDE BAND		R1520	1-216-262-00	METAL GLAZE	470K 5% 1/8W
				R1521	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
				R1522	1-216-296-00	METAL GLAZE	0 5% 1/8W
				R1556	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W
				R1558	1-216-296-00	METAL GLAZE	0 5% 1/8W
		<RESISTOR>				<VARIABLE RESISTOR>	
JW1401	1-216-295-00	METAL GLAZE	0 5% 1/10W	RV1501	1-238-023-11	RBS, ADJ, CARBON	470K
JW1404	1-216-295-00	METAL GLAZE	0 5% 1/10W	RV1502	1-228-994-00	RES, ADJ, CARBON	10K
JW1452	1-216-296-00	METAL GLAZE	0 5% 1/8W	RV1503	1-238-017-11	RBS, ADJ, CARBON	22K
JW1453	1-216-296-00	METAL GLAZE	0 5% 1/8W	RV1504	1-238-012-11	RES, ADJ, CARBON	1K
JW1456	1-216-295-00	METAL GLAZE	0 5% 1/10W	RV1505	1-238-023-11	RBS, ADJ, CARBON	470K
JW1457	1-216-296-00	METAL GLAZE	0 5% 1/8W	RV1506	1-238-017-11	RBS, ADJ, CARBON	22K
JW1458	1-216-295-00	METAL GLAZE	0 5% 1/10W	RV1507	1-238-009-11	RES, ADJ, CARBON	220
JW1459	1-216-296-00	METAL GLAZE	0 5% 1/8W	RV1508	1-238-016-11	RES, ADJ, CARBON	10K
JW1461	1-216-296-00	METAL GLAZE	0 5% 1/8W	RV1509	1-238-023-11	RES, ADJ, CARBON	470K
JW1463	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R1417	1-216-023-00	METAL GLAZE	82 5% 1/10W				
R1423	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R1424	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R1428	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R1429	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R1430	1-216-172-00	METAL GLAZE	82 5% 1/8W				
R1433	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R1434	1-249-393-11	CARBON	10 5% 1/4W F				
R1437	1-216-222-00	METAL GLAZE	10K 5% 1/8W				
R1440	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R1441	1-216-045-00	METAL GLAZE	680 5% 1/10W				
R1442	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R1443	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R1454	1-216-180-00	METAL GLAZE	180 5% 1/8W				
R1455	1-216-180-00	METAL GLAZE	180 5% 1/8W				
R1501	1-216-230-00	METAL GLAZE	22K 5% 1/8W				
R1502	1-216-232-00	METAL GLAZE	27K 5% 1/8W				
R1503	1-216-262-00	METAL GLAZE	470K 5% 1/8W				
R1504	1-216-234-00	METAL GLAZE	33K 5% 1/8W				
R1505	1-216-230-00	METAL GLAZE	22K 5% 1/8W				
R1506	1-216-262-00	METAL GLAZE	470K 5% 1/8W				
R1509	1-216-254-00	METAL GLAZE	220K 5% 1/8W				
R1510	1-216-216-00	METAL GLAZE	5.6K 5% 1/8W				
R1511	1-216-198-00	METAL GLAZE	1K 5% 1/8W				
R1512	1-216-222-00	METAL GLAZE	10K 5% 1/8W				
R1513	1-216-240-00	METAL GLAZE	56K 5% 1/8W				